



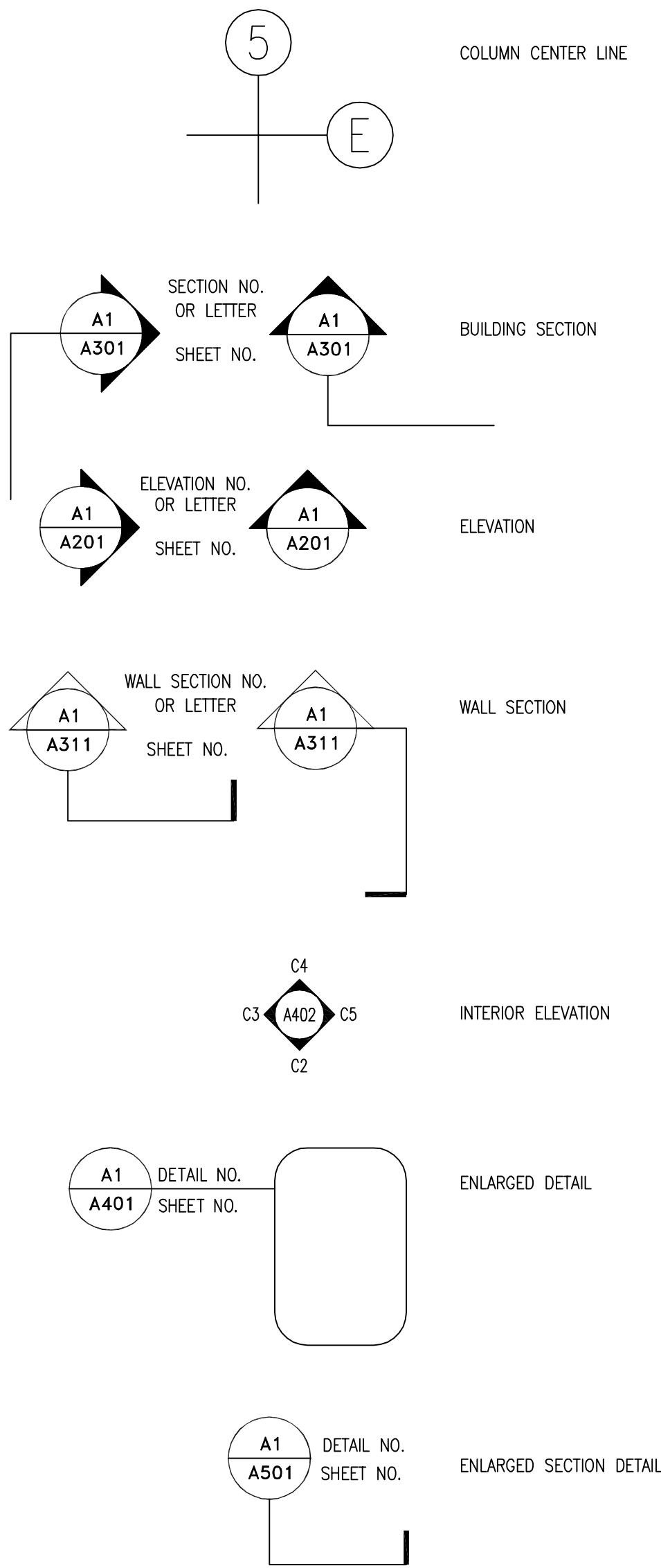
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
3. ALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD, U.N.O.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
5. DIMENSIONS NOTED AS N.T.S. ARE TO BE FIELD VERIFIED.
6. ALL WOOD IN CONTACT WITH OR WITHIN 8" OF SOILS IS TO BE FIELD TREATED FOR MOISTURE, RODENT AND INSECT PROTECTION.
7. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
8. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE COMPLETION OF
9. PROVIDE WATER SUPPLY ROUGH-IN AND ELECTRICAL SUPPLY TO IRRIGATION CONTROLS. PROVIDE PVC SLEEVE UNDER PAVEMENTS AND WALKS

GRAPHIC SYMBOLS

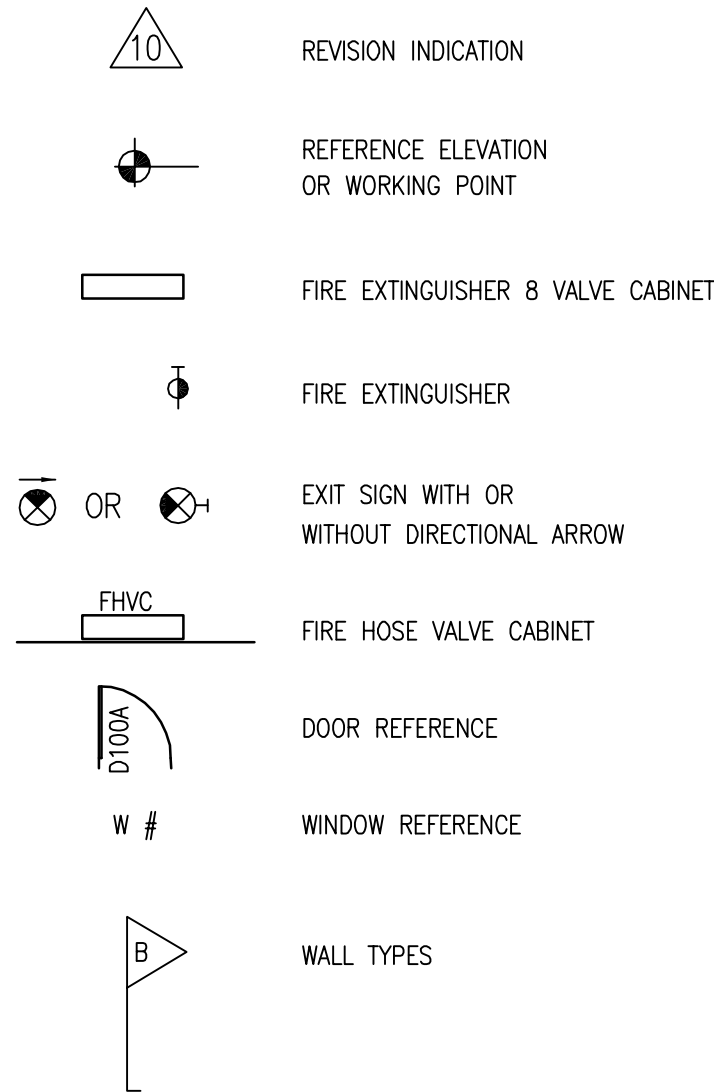
	EARTH		GRAVEL
	SAND		CONCRETE
	CONC. W/ FINISH		CAST STONE
	TILE W/ BED		MARBLE
	BRICK		GRANITE
	CMU		STONE
	LIMESTONE		PLYWOOD
	WOOD (BLOCKING)		WOOD FINISH
	WOOD FRAMING		ALUMINUM
	STEEL		BATT INSULATION
	RIGID INSULATION		ACOUSTICAL TILE
	PLASTER		BACKER ROD AND FILLER
	COMP. FILLER		GYPSUM BOARD
	METAL LATH		FENCE

ARCHITECTURAL LEGEND



DETAIL NO. — XX | DETAIL NAME

SHEET NO. — XX-XXX | REF. REFERENCE DWG      SCALE: DWG. SCALE



ABBREVIATIONS

ALT.	ALTERNATE	FIN.	FINISH	MISC.	MISCELLANEOUS	STD.	STANDARD
ALUM.	ALUMINUM	F.A.	FIRE ALARM	MTD.	MOUNTED	STL.	STEEL
A.B.	ANCHOR BOLT	F.E.	FIRE EXTINGUISHER	MUL.	MULLION	STOR.	STORAGE
ARCH.	ARCHITECTURAL	F.E.C.	F.E. CABINET	NOM.	NOMINAL	STRUCT.	STRUCTURAL/STRUCTURE
Ø	AT OR AT THE	FLR./FL.	FLOOR	N.	NORTH	SYM.	SYMMETRICAL
		F.D.	FLOOR DRAIN	N.T.S.	NOT TO SCALE	S.STL.	STAINLESS STEEL
		FTG.	FOOTING				
BM.	BEAM	FDN.	FOUNDATION			TEL.	TELEPHONE
BLK.	BLOCK					TEMP.	TEMPORARY/TEMPERED
BLKG.	BLOCKING	GALV.	GALVANIZED			THK.	THICK (NESS)
BD.	BOARD	G.I.	GALVANIZED IRON	OFOI	OWNER FURNISH, OWNER INSTALL	T & G	TONGUE AND GROOVE
BOT.	BOTTOM	GA.	GAUGE	OFCI	OWNER FURNISH, CONTRACTOR INSTALL	T/CONC.	TOP OF CONCRETE
BLDG.	BUILDING	GL.	GLASS			T/CURB	TOP OF CURB
		GR.	GRADE	OFF.	OFFICE	T.O.P.	TOP OF PLATE
CLKG.	CAULKING	GND.	GROUND	O.C.	ON CENTER	T/WALL	TOP OF WALL
C.I.	CAST IRON	GYP.	GYPSUM	OPNG.	OPENING	T.	TREAD
CLG.	CEILING	GYP. BD.	GYPSUM BOARD	OPP.	OPPOSITE	TYP.	TYPICAL
CEM.	CEMENT			OPP. H.	OPPOSITE HAND		
CTR.	CENTER	HDWR.	HARDWARE	O.D.	OUTSIDE DIAMETER	UNF.	UNFINISHED
	CENTER LINE	HDWD.	HARDWOOD			U.N.O.	UNFINISHED
CER.	CERAMIC	HT.	HEIGHT	PTD.	PAINTED	VAR.	VARY OR VARIES
C.T.	CERAMIC TILE	H.P.	HIGH POINT	PR.	PAIR	VERT.	VERTICAL
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL	HORIZ.	HORIZONTAL	PART.	PARTITION	V.T.R.	UNLESS OTHERWISE OTHERWISE
		H.B.	HOSE BIBB	PED.	PEDESTRIAN		
CFOI	CONTRACTOR FURNISH, OWNER INSTALLED	HM	HOLLOW METAL	PLAS.	PLASTER	W/	WITH
		HR.	HOURS (FIRE RATING)	P. LAM.	PLASTIC LAMINATE	WD.	WOOD
CLR.	CLEAR (..ANCE)			PL	PLATE	WP.	WATERPROOF
CLO.	CLOSET	IN.	INCH	PM	PRESSED METAL	WSC.	WAINSCOT
COL.	COLUMN	I.D.	INSIDE DIAMETER	PLYWD.	PLYWOOD	W/O	WITHOUT
CONC.	CONCRETE	INSUL.	INSULATION	PT.	POINT	W.P.	WORKING POINT
CMU	CONCRETE MASONRY UNIT	INT.	INTERIOR			W.R.	WATER RESISTANT
CONN.	CONNECTION	JAN.	JANITOR	Q.T.	QUARRY TILE		
CONSTR.	CONSTRUCTION	JT.	JOINT				
CONT.	CONTINUE/CONTINUOUS	J-BOX	JUNCTION BOX	RAD.	RADIUS		
CONTR.	CONTRACTOR			R.W.L.	RAIN WATER LEADER		
C.J.	CONTROL JOINT	KIT.	KITCHEN	RE:	REFER TO		
CORR.	CORRIDOR			REFL.	REFLECTED		
CNTR.	COUNTER	LAM.	LAMINATE	REINF.	REINFORCING		
CTSK.	COUNTERSUNK	LAV.	LAVATORY	REQ.	REQUIRED		
		LT.	LIGHT	REV.	REVISED		
		L.P.	LOW POINT	R.	RISER		
DET.	DETAIL			R.D.	ROOF DRAIN		
DIA.	DIAMETER	MAINT.	MAINTENANCE	R.	ROOM		
DIM.	DIMENSION	MFR.	MANUFACTURER	R.O.	ROUGH OPENING		
DN.	DOWN	M.O.	MASONRY OPENING				
D.S.	DOWNSPOUT	MAX.	MAXIMUM	SCHED.	SCHEDULE		
DWG.	DRAWING	MECH.	MECHANICAL	SEAL.	SEALANT		
D.F.	DRINKING FOUNTAIN	MEMB.	MEMBRANE	SECT.	SECTION		
		MEN.	MEN'S TOILET	S.SK.	SERVICE SINK		
EA.	EACH	MTL./MET.	METAL	SHT.	SHEET		
ELEC.	ELECTRIC (AL)	MIN.	MINIMUM	SIM.	SIMILAR		
ELEV./EL.	ELEVATION	MIR.	MIRROR	SL./SLP.	SLOPE		
EQ.	EQUAL			S.C.	SOLID CORE		
EQUIP.	EQUIPMENT			SPEC.	SPECIFICATIONS		
EXP.	EXPANSION			SQ.	SQUARE		
EXT.	EXTERIOR						
EW	EACH WAY						

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CLIENT

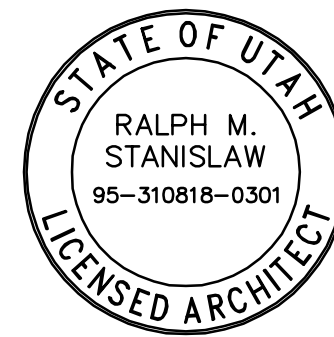
MEADOW  
MAINTENANCE FACILITY  
STATION #4534  
400 N. MAIN  
MEADOW, UTAH 84644

DESIGNER



CONSULTANTS

PROFESSIONAL SEAL



ISSUE

	09/02/05	BID DOCUMENTS
	08/12/05	FINAL REVIEW SET
	07/18/05	PRELIMINARY REVIEW SET
MARK	DATE	DESCRIPTION

PROJECT NO:	050008.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

GENERAL NOTES,  
ABBREVIATIONS,  
SYMBOLS, LEGEND &  
SHEET INDEX

G001



MASTER KEYNOTE LIST

DIVISION 1 GENERAL REQUIREMENTS

DIVISION 2 SITEWORK

02201	EARTHWORK
02201.A0	COMPACTED FILL
02201.B0	GRAVEL BASE
02201.C0	SAND

02511 ASPHALTIC CONCRETE PAVING (ZERO VOIDS MIX)

02511.A0 ZERO VOIDS ASPHALTIC PAVING

DIVISION 3 CONCRETE

03053 CONCRETE W/WATER PROOFING SYSTEM

03053.A0 CONCRETE WATER PROOFING SYSTEM

03300 CAST-IN-PLACE CONCRETE

03300.A0	CONCRETE – SLAB ON GRADE
03300.A1	CONCRETE SLAB–ON–GRADE – RE: STRUCTURAL
03300.A2	CONCRETE SLAB–ON–GRADE (THICKNESS)
03300.B1	CONCRETE SLAB – RE:STRUCTURAL
03300.B2	CONCRETE SLAB (THICKNESS)
03300.C0	FOOTING
03300.C1	FOOTING – RE: STRUCTURAL
03300.D0	CONCRETE PAD
03300.E0	RETAINING WALL
03300.F0	CAST–IN–PLACE REINFORCED CONCRETE
03300.F1	CAST–IN–PLACE REINFORCED CONCRETE, WITH ARCHITECTURAL FINISH
03300.G0	CONCRETE OVER METAL DECK – RE:STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.J0	REINFORCING
03300.J1	REINFORCING – RE: STRUCTURAL
03300.J2	#4 BARS CONTINUOUS (QUANTITY)
03300.J3	#5 BARS CONTINUOUS (QUANTITY)
03300.K1	18" DIA. CONCRETE PIPE BASE
03300.L1	30# FELT
03300.M1	MOISTURE BARRIER
03300.P4	CONSTRUCTION JOINT
03300.P5	ISOLATION JOINT
03300.S1	SPLASH BLOCK

DIVISION 5 METALS

05310 STEEL DECK

05310.A1 METAL DECK – RE: STRUCTURAL

05400 COLD–FORMED METAL FRAMING

05400.X1	STEEL STUD
05400.X2	STEEL TRACK
05400.X3	STEEL JOIST – RE:STRUCTURAL

05500 METAL FABRICATIONS

05500.A1	ANGLE – RE: STRUCTURAL
05500.A2	L (SIZE)
05500.B0	CLIP ANGLE
05500.B2	CLIP ANGLE (SIZE)
05500.D0	CHANNEL (SIZE)
05500.D1	CHANNEL – RE: STRUCTURAL
05500.D2	HAT CHANNEL (SIZE)
05500.E0	PLATE (SIZE)
05500.E1	PLATE – RE: STRUCTURAL
05500.E2	PLATE (SIZE) – GALVANIZED
05500.J1	PIPE BOLLARD (DIAMETER) – GALV. & PAINTED
05500.M1	CHECKERED PLATE (SIZE) GALVANIZED
05500.P0	ANCHOR BOLT(S)
05500.P1	ANCHOR BOLTS (DIAMETER, SPACING)
05500.V0	FLOOR PLATE
05500.X1	STEEL STUD (RE:STRUCTURAL)
05500.X2	STEEL RUNNER (RE:STRUCTURAL)
05500.Y0	ROUGH HARDWARE – GALVANIZED
05500.Z0	CHAIN – GALVANIZED
05500.Z1	STEEL CLIP RING – GALVANIZED
05500.Z2	RING FOR CHAIN ATTACHMENT – GALVANIZED

05510 METAL STAIRS

05510.A1	LADDER RUNGS @ 12" O.C.
05510.B1	LADDER RAILS
05510.C0	LADDER MOUNTING BRACKET
05510.D1	RUBBER SHOE AT BOTTOM OF EACH RAIL
05510.E1	1 1/2" O.D. HANDRAILING

05521 PIPE & TUBE RAILINGS

05521.A1	1 1/2" O.D. STEEL GUARDRAIL
05521.B1	1 1/2" O.D. HANDRAIL
05521.C1	1/2" O.D. PICKET RAILING @ 4" O.C.

05530 GRATINGS

05530.A0	TRENCH FRAME – GALVANIZED
05530.A1	STEEL GRATE 22–W–4 (SIZE) GALVANIZED
05530.B0	ALUMINUM BAR PANELS

DIVISION 6 WOOD AND PLASTICS

06105 MISCELLANEOUS CARPENTRY

06105.L2	BLOCKING AS REQUIRED
06105.P1	2X4
06105.P2	2X6
06105.P6	4X4
06105.P9	2 x FRAMING, FIRE TREATED
06105.P10	PRESSURE TREATED WOOD TIMBER (SIZE)
06105.Q2	SHIM AS REQUIRED
06105.R2	SHEATHING – PLYWOOD (THICKNESS) GRADE (SIZE)
06105.R3	G1S A/C PLYWOOD (THICKNESS)
06105.V1	EXTERIOR GRADE PLYWOOD (THICKNESS)
06105.V6	PEGBOARD (THICKNESS)
06105.Z0	ANCHOR AS REQUIRED

06402 INTERIOR ARCHITECTURAL WOODWORK

06402.A0	SILL
06402.A1	3/4" PAINTED WOOD SILL
06402.B1	PLASTIC LAMINATE BACKSPLASH (HEIGHT)
06402.H0	SHELF(YES)
06402.H1	ADJUSTABALE SHELVES
06402.H2	SHELVING (DEPTH)
06402.K0	BASE UNIT (FINISH)
06402.K2	BASE UNIT W/ADJ. SHELF(YES) (FINISH)
06402.K3	BASE UNIT W/DRAWERS (FINISH)
06402.K4	BASE UNIT W/DRAWER & ADJ. SHELF(YES) (FINISH)
06402.L2	WALL UNIT W/ADJ. SHELF(YES) (FINISH)
06402.P0	COUNTERTOP
06402.P2	COUNTERTOP – P. LAM. ON 3/4" PLYWOOD
06402.X0	WORKBENCH

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07160 BITUMINOUS DAMPROOFING

07160.A0 BITUMINOUS DAMPROOFING

07190 WATER REPELLANTS

07190.A0 CLEAR WATER RESISTANT COATING

07210 BUILDING INSULATION

07210.A1	BATT INSULATION (R–VALUE)
07210.B1	RIGID INSULATION (THICKNESS)
07210.D0	VAPOR BARRIER
07210.E0	FOUNDATION WALL INSULATION (THICKNESS)

07901 JOINT SEALANTS

07901.A0	SEALANT
07901.B0	ASPHALT SATURATED FIBERBOARD
07901.C0	CAULK
07901.D0	JOINT FILLER
07901.G0	BACKER ROD

DIVISION 8 DOORS AND WINDOWS

08111 STANDARD STEEL DOORS AND FRAMES

08111.A0	PRESSED METAL FRAME
08111.A1	GROUT–FILLED PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR

08360 SECTIONAL OVERHEAD DOORS

08360.A0	OVERHEAD SECTIONAL DOOR
08360.B0	DOOR TRACK
08360.C0	WEATHERSTRIPPING
08360.D0	DOOR GUIDE

08520 ALUMINUM WINDOWS

08520.A0	WINDOW UNIT
08520.B0	FIXED WINDOW
08520.C0	ALUM. WINDOW W/SLIDING GLASS PANEL
08520.M0	SILL STARTER, SET IN SEALANT
08520.P0	BREAKMETAL
08520.Q0	WEATHERSTRIPPING
08520.R0	ALUMINUM FLASHING, FINISH TO MATCH WINDOW FRAME

08710 DOOR HARDWARE

08710.A0	THRESHOLD
08710.C0	WEATHERSTRIPPING

08800 GLAZING

08800.C0	WIRE GLASS
08800.G1	CLEAR INSULATING GLASS (SIZE)
08800.G3	OPAGUE INSULATING GLASS

DIVISION 9 FINISHES

09255 GYPSUM BOARD ASSEMBLIES

09255.A1	GYPSUM BOARD (THICKNESS)
09255.A2	WATER RESISTANT GYPSUM BOARD (THICKNESS)
09255.B2	TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.C3	CEMENT BOARD (THICKNESS)
09255.H0	METAL STUD
09255.H1	METAL STUDS (SIZE, SPACING)
09255.J0	METAL RUNNER
09255.K0	DOUBLE STUDS
09255.K1	DOUBLE STUDS (GAGE)
09255.L1	7/8" X 1–3/8" METAL ANGLE
09255.L2	2–1/2" X 2–1/2" METAL ANGLE
09255.M2	METAL CORNER BEAD (TYP)
09255.P0	Z–FURRING CHANNEL
09255.Q0	7/8" METAL FURRING CHANNEL
09255.R2	CHANNEL (SIZE, SPACING)
09255.S1	8 GA. WIRE HANGERS (SPACING)
09255.S2	18 GA. WIRE TIES
09255.S3	18 GA. METAL MOUNTING STRIPS
09255.S4	14 GA. STAINLESS STEEL COUNTER TOP
09255.U1	SUSPENDED CEILING SYSTEM
09255.V0	EDGE TRIM (TYP)
09255.V2	LC–BEAD (PREFERRED USG 200–A TRIM)
09255.V4	VINYL TRIM

09300 TILE

09300.A1	TILE UNGLAZED CERAMIC MOSAIC–TILE TYPE#1
09300.A2	TILE GLAZED WALL–TILE TYPE#2
09300.C0	TILE BASE
09300.D1	BULLNOSE TRIM UNIT
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE

09660 RESILIENT TILE FLOORING

09660.A1 VINYL COMPOSITION TILE TYPE #1

09678 RESILIENT WALL BASE AND ACCESSORIES

09678.E1 RUBBER BASE (SIZE)

09900 PAINTING

09900.A1	PAINT – TYPE #1
09900.A2	PAINT – TYPE #2
09900.A3	PAINT – TYPE #3

DIVISION 10 SPECIALTIES

10100 VISUAL DISPLAY BOARDS

10100.C0	MARKER BOARD
10100.D0	TACK BOARD

10425 SIGNS

10425.A0	SIGNAGE
10425.A1	OIL SIGNAGE
10425.B1	WELDING SIGNAGE
10425.C1	ACCESSIBLE SIGNAGE
10425.D1	ACCESSIBLE/UNISEX RESTROOM SIGNAGE

10500 METAL LOCKERS AND STORAGE CABINETS

10500.A0	METAL LOCKERS
10500.B0	METAL STORAGE CABINETS

10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

10522.A0 FIRE EXTINGUISHER

10800 TOILET AND BATH ACCESSORIES

10800.B0	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.C0	TOILET TISSUE DISPENSER
10800.D0	MOP RACK
10800.E0	GRAB BAR
10800.E1	GRAB BAR (SHOWER)
10800.H0	SOAP DISPENSER
10800.H1	SOAP DISH
10800.P1	SHOWER CURTAIN ROD
10800.P2	SHOWER CURTAIN
10800.R1	FRAMED MIRROR (SIZE)
10800.T1	FOLDING SHOWER SEAT
10800.T0	METAL SHELF (SIZE)

DIVISION 11 EQUIPMENT

11151 MOBILE LIFT

11151.A0	FIXED LIFT
11151.A0	MOBILE LIFT – (ALT. BID)

DIVISION 12 FURNISHINGS

12511 HORIZONTAL LOUVER BLINDS

12511.A0 HORIZONTAL LOUVER BLINDS

DIVISION 13 SPECIAL CONSTRUCTION

13125 METAL ARCH BUILDING SYSTEM

13125.A0	METAL ARCH BUILDING SYSTEM
13125.B0	STANDING SEAM METAL ROOF
13125.B1	STANDING SEAM METAL ROOF RIDGE
13125.B2	STANDING SEAM METAL CANOPY
13125.C0	METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.C3	GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.D0	METAL FLASHING
13125.D1	METAL DRIP FLASHING
13125.D2	METAL HEAD FLASHING
13125.D3	METAL SILL FLASHING
13125.D4	METAL FLASHING, FINISH TO MATCH ROOF PANELS
13125.D5	RIDGE FLASHING, TO MATCH ROOF PANELS
13125.D6	DOOR HEAD FLASHING
13125.D7	JAMB FLASHING
13125.E0	METAL TRIM
13125.E1	JAMB TRIM
13125.E2	PANEL TRIM
13125.E3	RAKE TRIM
13125.E4	RAKE SLIDE
13125.E5	METAL EAVE CLOSURE
13125.E6	WALL CLOSURE
13125.E7	METAL OUTSIDE CLOSURE
13125.E8	CORNER TRIM
13125.E9	FRAMED OPENING HEADER
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.F2	BLIND RIVET
13125.F3	POP RIVET
13125.G0	METAL FACIA
13125.H0	BREAK METAL
13125.H1	METAL ANGLE
13125.H2	HIGH RAKE SUPPORT ANGLE
13125.H3	RAKE ANGLE
13125.H4	4" x 4" CONT. ANGLE
13125.H5	BACKUP PLATE ANGLE
13125.H6	EAVE SUPPORT ANGLE
13125.H7	EAVE STRUT
13125.J0	STRUCTURAL MEMBER
13125.J1	STRUCTURAL GIRT
13125.J2	PURLIN
13125.K0	CLIP
13125.K1	LOW PANEL CLIP
13125.L1	STEEL COLUMN – GALV. – PAINTED
13125.M1	STEEL BEAM – GALV. – PAINTED
13125.N1	ANCHOR
13125.N2	FASTENER (SPACING)
13125.P1	DOUBLE BEAD TAPE SEALER
13125.P2	SEALANT
13125.P3	THERMAL BREAK
13125.Q0	METAL VENT
13125.Q1	VENT MATERIAL

DIVISION 14 CONVEYING SYSTEMS

14620 TROLLEY HOIST

14620.A0 TROLLEY HOIST (SIZE) – RE: STRUCTURAL

DIVISION 15 EQUIPMENT

15000 MECHANICAL

15050.A1	MECH. PENETRATIONS
15251.A1	PIPE INSULATION AT ALL EXPOSED PIPE
15410.A0	URINAL
15410.A1	URINAL, ACCESSIBLE
15410.B0	SINK FAUCET
15410.B1	SINK FAUCET W/ADA LEVER HANDLES
15410.C0	UTILITY SINK
15410.D1	FLOOR SINK
15410.E0	TRENCH DRAIN
15410.E1	DRAIN W/ SEDIMENT BUCKET
15410.E2	FLOOR DRAIN
15412.A0	EMERGENCY SHWR & EYE WASH
15452.A1	DRINKING FOUNTAIN
15460.A1	GAS FIRED WATER HEATER
15490.A0	WASTE OIL PUMP
15490.B0	WASTE OIL CARTS
15490.C0	WASTE OIL PIT
15491.A0	AIR COMPRESSOR
15491.B0	OVERHEAD LUBE REEL
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
15611.A1	GAS FIRED FURNACE
15838.A0	EXHAUST FAN
15838.A1	ROOF TOP EXHAUST FAN
15887.A1	LOUVER W/ BIRD SCREEN

DIVISION 16 ELECTRICAL

16510 INTERIOR LUMINAIRES

16510.A0	INTERIOR LIGHTS
16510.B0	INTERIOR WALL LIGHTS

16520 EXTERIOR LUMINAIRES

16520.A0	EXTERIOR LIGHTS
16520.A1	EXTERIOR LIGHTS IN CANOPY
16520.A2	EXTERIOR WALL MOUNTED LIGHTS

CLIENT

MEADOW  
MAINTENANCE FACILITY  
STATION #4534  
400 N. MAIN  
MEADOW, UTAH 84644

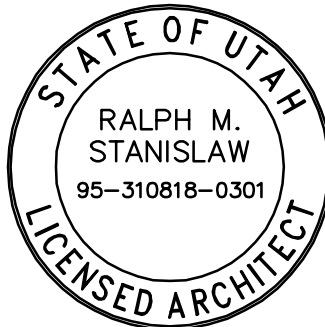
DESIGNER



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CONSULTANTS

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ISSUE

	09/02/05	BID DOCUMENTS
	08/12/05	FINAL REVIEW SET
	07/18/05	PRELIMINARY REVIEW SET
MARK	DATE	DESCRIPTION

PROJECT NO:	050008.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

MASTER  
KEYNOTE LIST

G002

SITE WORK CONSTRUCTION NOTES AND SUPPLEMENTAL SPECIFICATIONS

1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH SUNRISE ENGINEERING, INC. STANDARD SPECIFICATIONS.

2. OBTAIN THE REQUIRED BUILDING PERMIT AND COORDINATE BUILDING INSPECTIONS WITH THE LOCAL BUILDING INSPECTOR.

3. DO NOT DISTURB EXISTING UTILITIES. LOCATE EXISTING UTILITIES BY "BLUE STAKES". CONTACT AND COORDINATE WITH UTILITY COMPANY FOR UTILITY RELOCATION'S AND INSTALLATIONS AND CONNECTION FEES. COOPERATE WITH THE UTILITY COMPANY FOR ALL RELOCATION'S AND INSTALLATIONS.

4. PROVIDE MEANS OF MANAGING ANY STORM WATER, GROUND WATER, OR NUISANCE SURFACE WATER FROM INTERFERING WITH THE CONSTRUCTION OPERATION AT NO EXTRA COST TO THE PROJECT.

5. JOB SITE VISITS BY THE ENGINEER OR OWNER DURING CONSTRUCTION ARE FOR THE PURPOSE OF OBSERVING THE WORK PERFORMED ONLY AND DO NOT CONSTITUTE ACCEPTANCE OF THE WORK.

6. NOTIFY THE ENGINEER OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK.
7. VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC. AND NOTIFY THE ENGINEER ON ANY DISCREPANCIES. COORDINATE WORK PERFORMED BY ALL TRADES. DO NOT SCALE DRAWINGS.

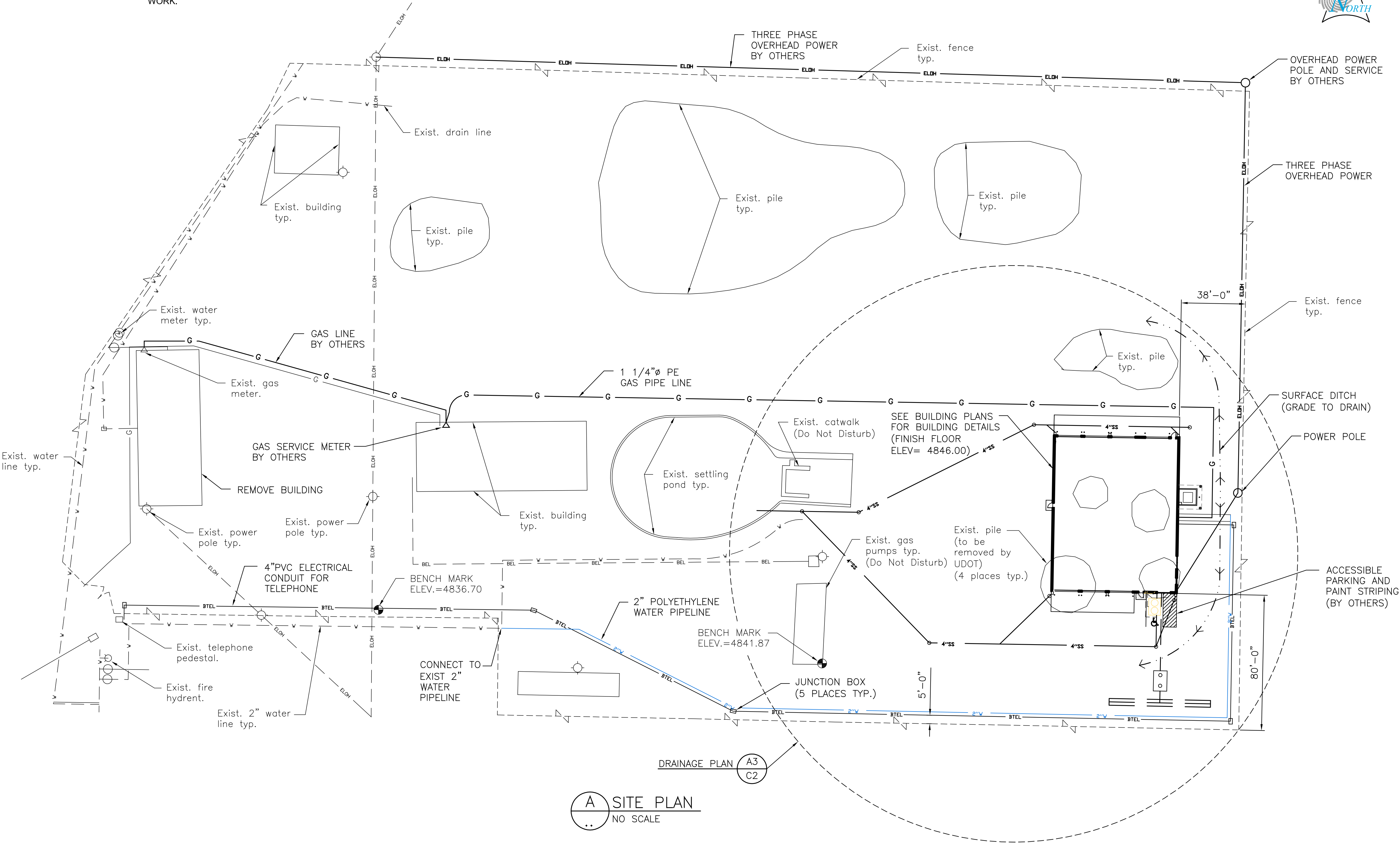
8. NO SEPARATE PAYMENT WILL BE MADE FOR ANY WORK ITEM THAT IS NOT SPECIFICALLY SET FORTH IN THE CONTRACT. ALL OTHER COSTS ASSOCIATED WITH THE INTENDED SITE WORK SHALL BE CONSIDERED INCIDENTAL WORK AND SHALL BE INCLUDED IN THE BUILDING CONSTRUCTION CONTRACT PRICE.

9. INCLUDE ALL COSTS FOR EXCAVATING, PREPARING THE SUBGRADE INCLUDING CONSTRUCTING EMBANKMENT FILL WHERE REQUIRED FOR THE BUILDING FOUNDATION AND FLOOR IN THE CONTRACT LUMP SUM PRICE FOR THE BUILDING CONSTRUCTION INCLUDING REMOVING AND DISPOSING OF ANY EXCESS EXCAVATED MATERIAL AND GRADING.

10. PROVIDE CONSTRUCTION SURVEY STAKING TO ESTABLISH LINES AND GRADES SPECIFIED FOR THE ENTIRE PROJECT LAYOUT.
11. UTILITIES DESIGNATED ON SITE PLAN AS "BY OTHERS" WILL BE INSTALLED BY THE UTILITY COMPANY. INCLUDE THE COST FOR THE UTILITY COMPANY'S WORK AND UTILITY CONNECTION FEES IN THE CONTRACT PRICE FOR THE BUILDING CONSTRUCTION. CONTACT RON BURNS (MEADOW TOWN 435-842-7102) FOR THE COST REQUIRED FOR THE OVERHEAD POWER AND SERVICE METER AND TERRY BREWER (QUESTAR GAS 435-743-6061) FOR THE COST REQUIRED FOR THE NATURAL GAS PIPELINE AND SERVICE METER. INCLUDE ALL OTHER COST FOR THE INSTALLATION OF THE UTILITIES TO THE BUILDING IN THE CONTRACT PRICE FOR THE BUILDING.

12. FURNISH AND INSTALL 4" PVC ELECTRICAL CONDUIT AND JUNCTION BOXES FOR THE TELEPHONE SERVICE TO THE BUILDING. FRONTIER COMMUNICATIONS WILL FURNISH AND INSTALL TELEPHONE WIRING AT NO COST TO THE PROJECT. COORDINATE CONDUIT INSTALLATION WITH KIM HEALEY (FRONTIER TELEPHONE COMPANY 435-279-7419).

13. CONSTRUCT THREE PHASE OVERHEAD POWER LINE IN ACCORDANCE WITH FLOWELL ELECTRIC SPECIFICATIONS. CONTACT STEVE IVERSON (FLOWELL ELECTRIC 435-701-2581) FOR THESE SPECIFICATIONS.



A SITE PLAN  
NO SCALE

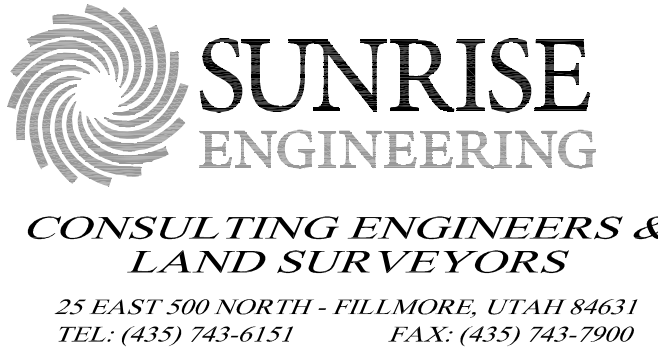
CLIENT

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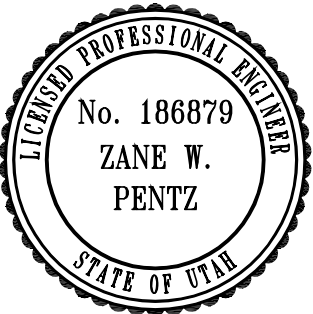
DESIGNER



CONSULTANTS



REGISTRATION



ISSUE

MARK	DATE	DESCRIPTION
	09/02/05	BID DOCUMENTS
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PROJECT NO:	050008.01
DRAWN BY:	EKC
CHECKED BY:	ZWP
SCALE:	1"=30'
DATE:	AUGUST 12, 2005

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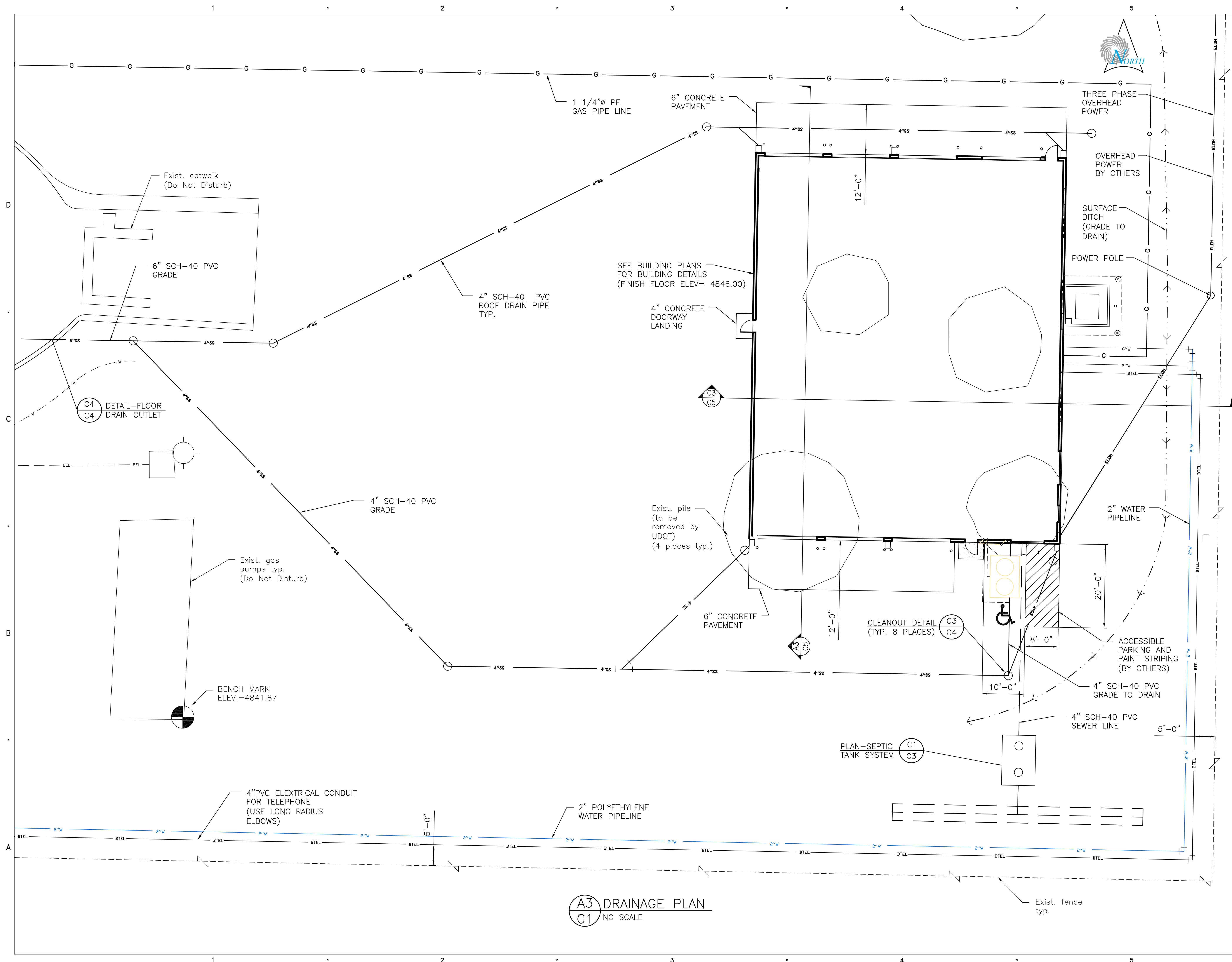
SITE WORK

SHEET TITLE

SITE PLAN

C001





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## CONSULTANTS

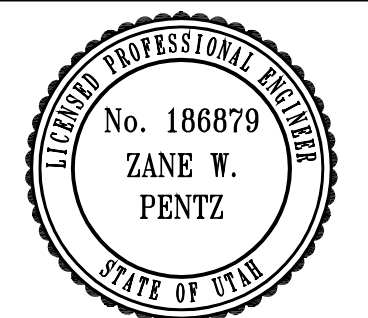


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## REGISTRATION



## ISSUE

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DRAWN BY:	EKC
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SCALE:	1"=10'
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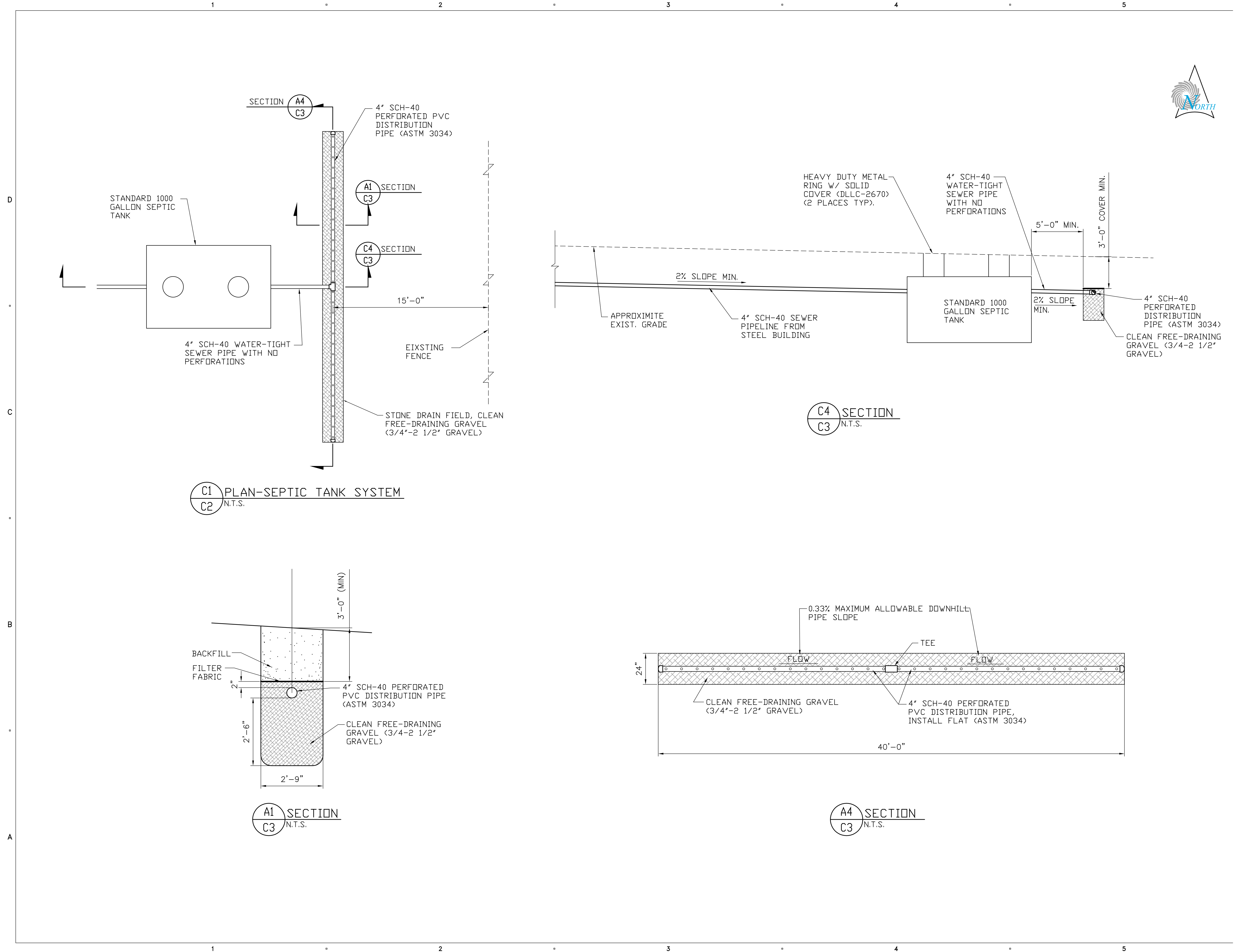
## KEY PLAN

## SITE WORK

SHEET TITLE

## DRAINAGE PLAN

C002



CLIENT

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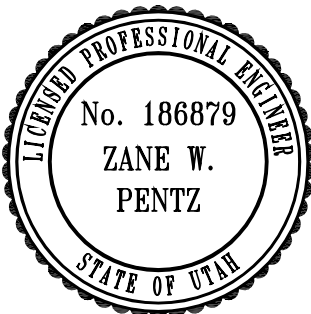
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SCALE:	N.T.S.
DATE:	AUGUST 12, 2005

KEY PLAN

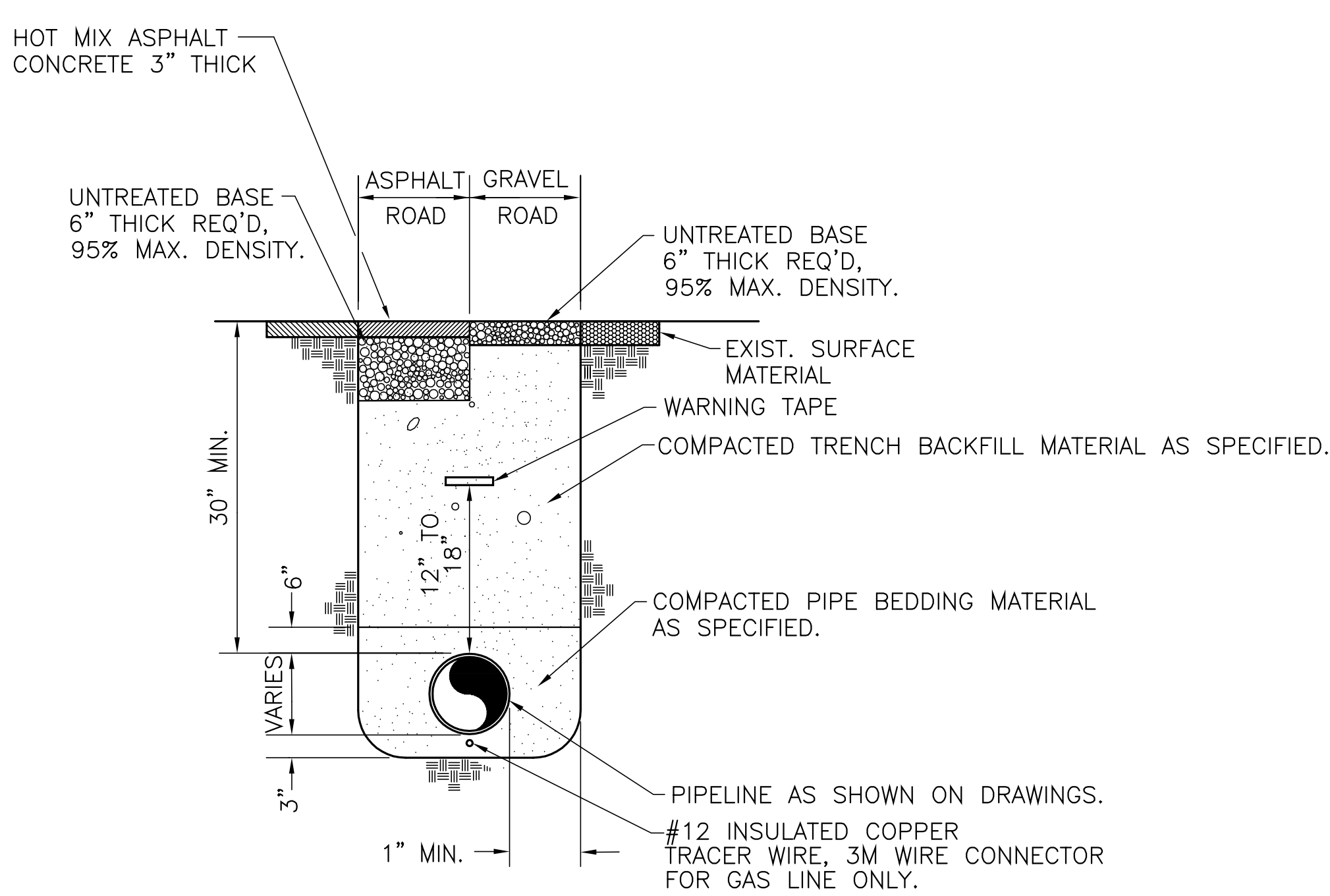
SITE WORK

SHEET TITLE

DRAINAGE DETAILS

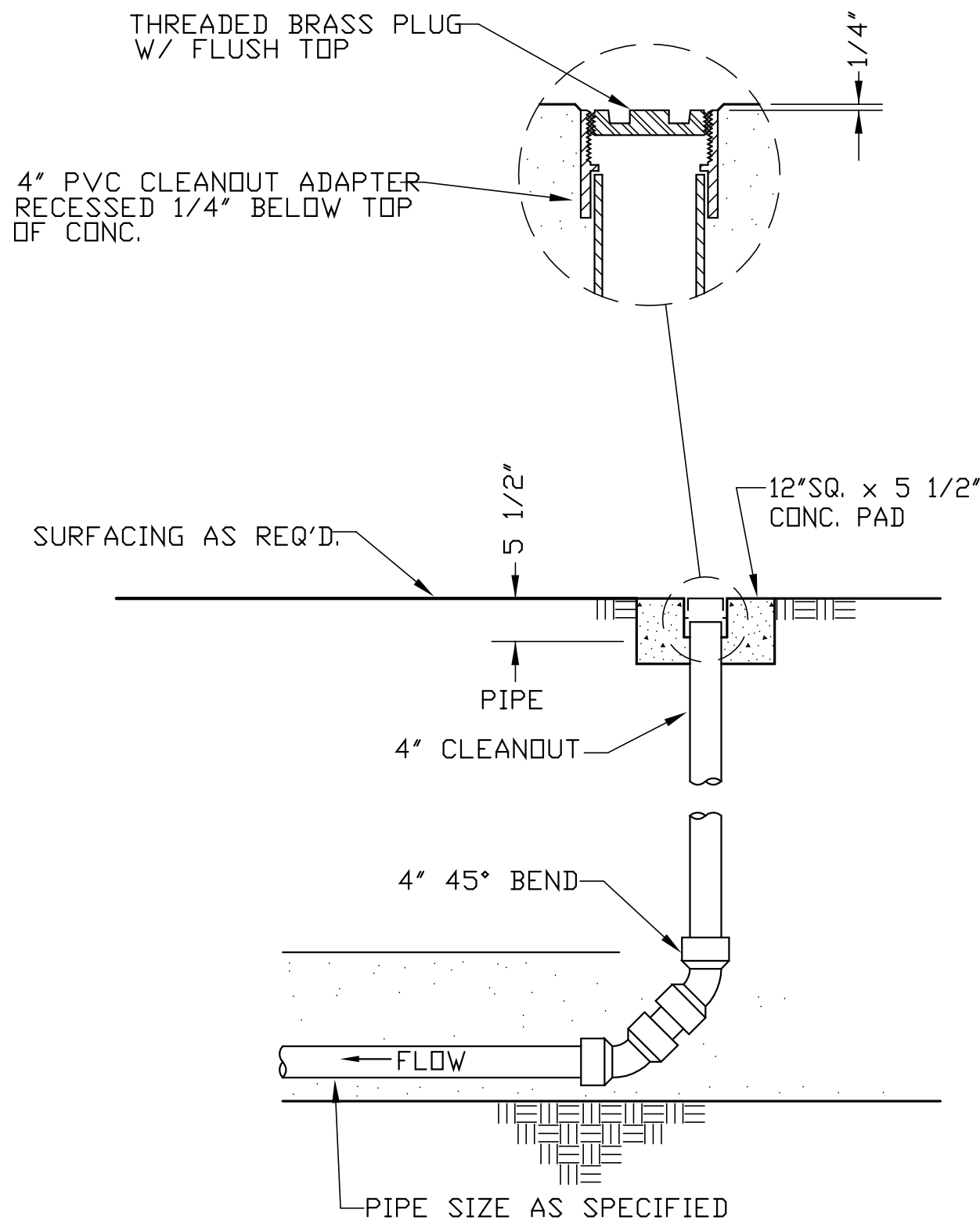
C003



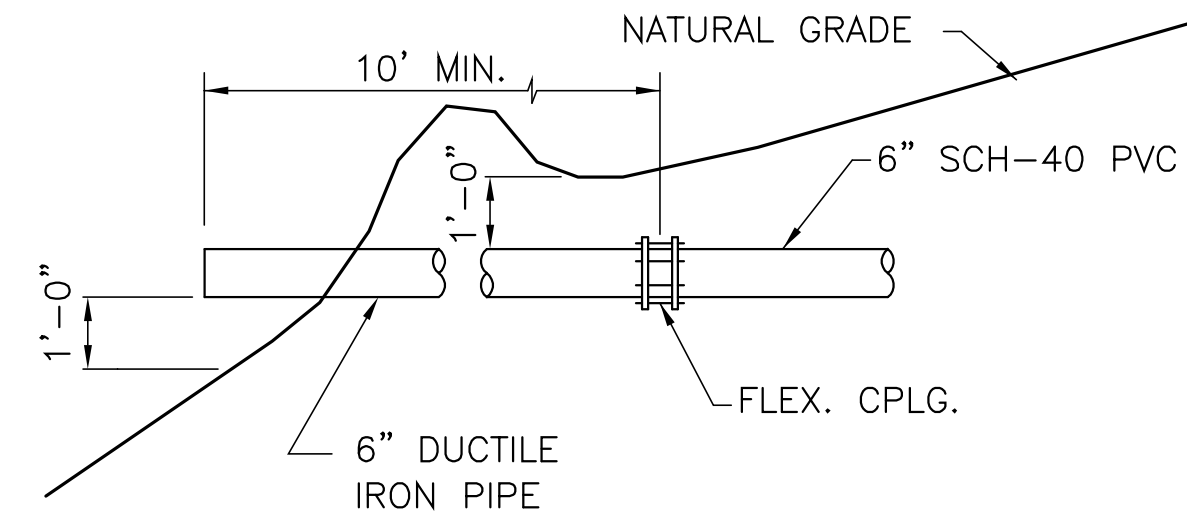


- NOTE:
- 1- TRENCH DETAIL APPLIES TO AREAS WITHIN ASPHALT / GRAVEL ROAD SURFACES, DRIVEWAYS, IRRIGATION DITCHES, AND ALL AREAS WHERE SURFACE IMPROVEMENTS MAY BE CONSTRUCTED.
  - 2- EXISTING ASPHALT SHALL BE SAW CUT.

**C1** DETAIL-TRENCH UNDER ROAD SURFACE  
TYP NO SCALE

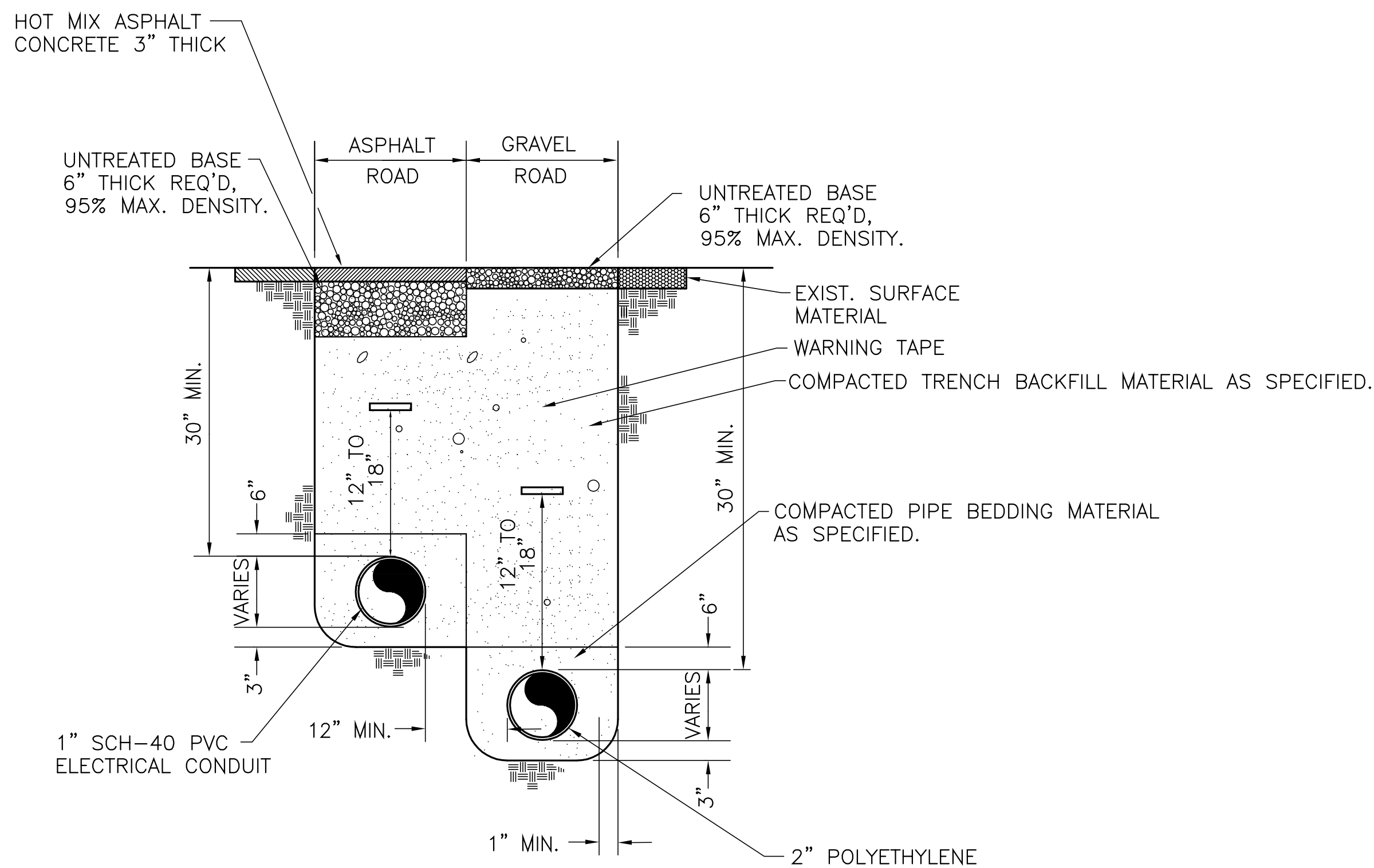


**C3** CLEANOUT DETAIL  
C2 NO SCALE



NOTE:  
MAINTAIN CONTINUOUS  
DOWNHILL SLOPE

**C4** DETAIL-FLOOR DRAIN OUTLET  
C2 NO SCALE



- NOTE:
- 1- TRENCH DETAIL APPLIES TO AREAS WITHIN ASPHALT / GRAVEL ROAD SURFACES, DRIVEWAYS, IRRIGATION DITCHES, AND ALL AREAS WHERE SURFACE IMPROVEMENTS MAY BE CONSTRUCTED.
  - 2- EXISTING ASPHALT SHALL BE SAW CUT.

**A3** DETAIL-TRENCH UNDER ROAD SURFACE  
TYP NO SCALE

CLIENT

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MEADOW, UTAH 84644

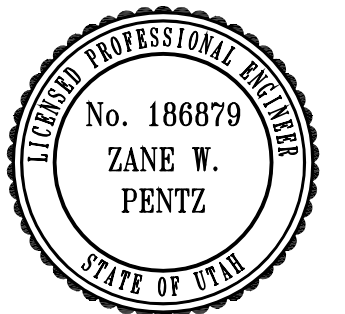
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DATE:	AUGUST 12, 2005

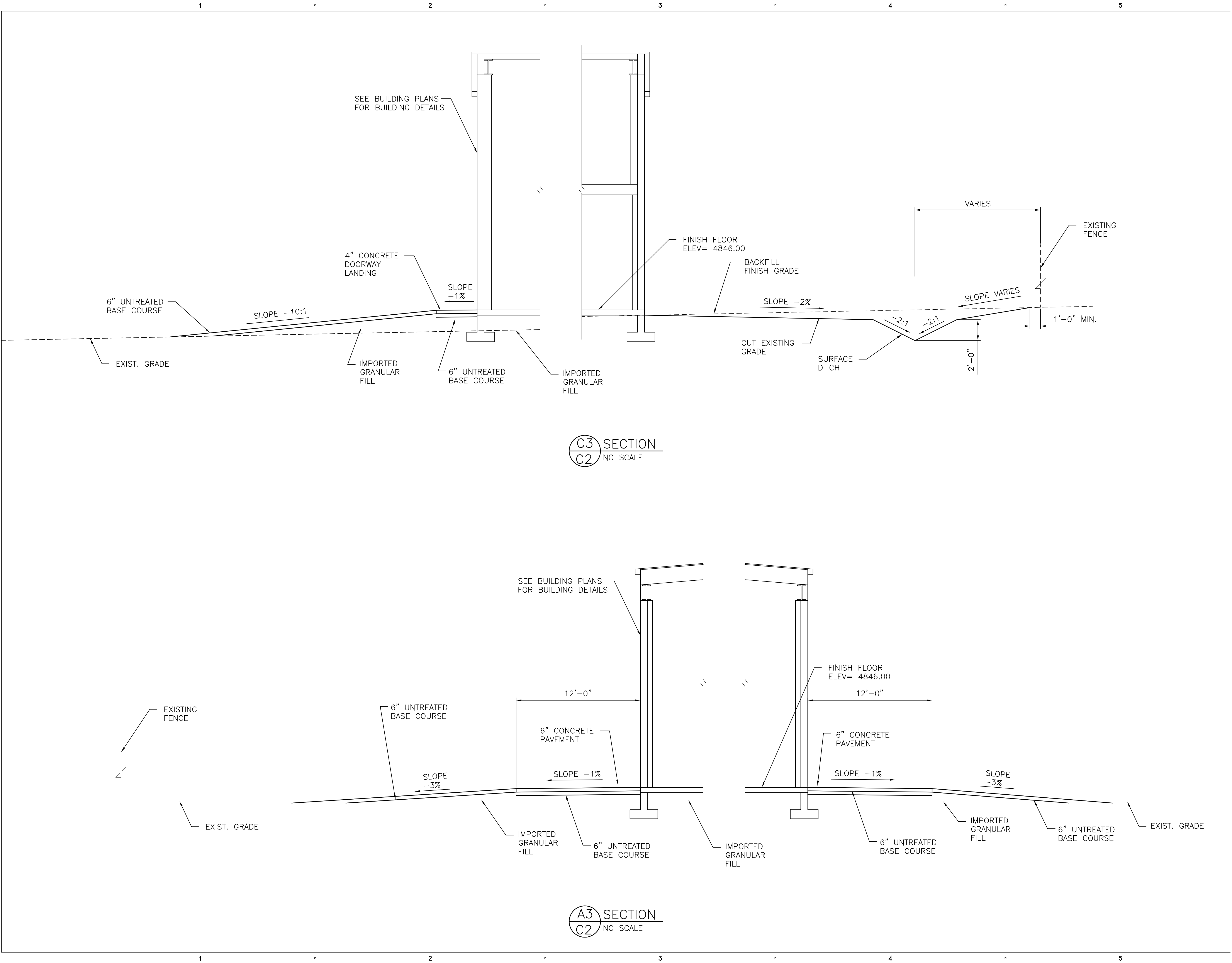
KEY PLAN

SITE WORK

SHEET TITLE

**DRAINAGE & TRENCH  
DETAILS**

**C004**



CLIENT

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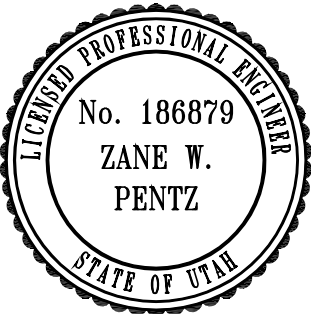
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KEY PLAN

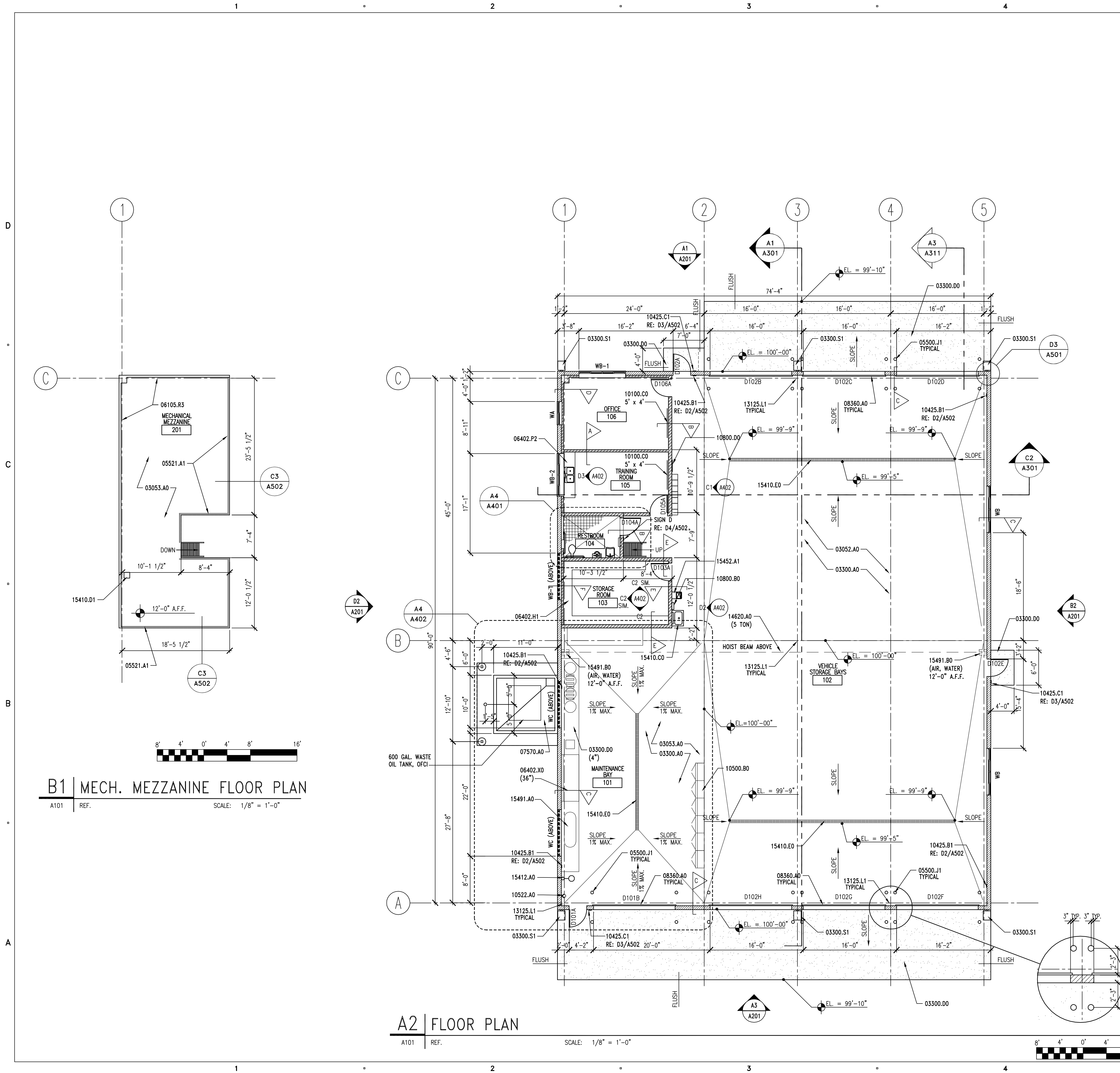
SITE WORK

SHEET TITLE

SECTIONS

C005





KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING SYSTEM
- 03300.A0 CONCRETE SLAB ON GRADE
- 03300.D0 CONCRETE PAD
- 03300.S1 SPLASH BLOCK
- 05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED
- 05521.A1 1 1/2" O.D. STEEL GUARDRAIL
- 06105.R3 G1S A/C PLYWOOD (THICKNESS)
- 06402.H1 ADJUSTABLE SHELVES
- 06402.P2 COUNTERTOP - P. LAM. ON 3/4" PLYWOOD
- 06402.X0 WORK BENCH (DEPTH)
- 08360.A0 OVERHEAD SECTIONAL DOOR
- 10100.C0 MARKER BOARD (L X H)
- 10425.A1 OIL SIGNAGE
- 10425.B1 WELDING SIGNAGE
- 10425.C1 ACCESSIBLE SIGNAGE
- 10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE
- 10500.B0 METAL STORAGE CABINETS
- 10522.A0 FIRE EXTINGUISHER
- 10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
- 10800.D0 MOP RACK
- 13125.B0 STANDING SEAM METAL ROOF
- 13125.L1 STEEL COLUMN - GALV. - PAINTED
- 14620.A0 TROLLEY HOIST (SIZE) RE: STRUCTURAL
- 15410.C0 UTILITY SINK
- 15410.D1 FLOOR SINK
- 15410.E0 TRENCH DRAIN
- 15412.A0 EMERGENCY SHOWER & EYE WASH
- 15452.A1 DRINKING FOUNTAIN
- 15491.A0 AIR COMPRESSOR
- 15491.B0 OVERHEAD LUBE REEL
- 15887.A1 LOUVER WITH BIRD SCREEN

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. PROVIDE BACKING BEHIND ALL SURFACE MOUNTED EQUIPMENT AND/OR FIXTURES PER DETAIL C3/A401
5. SEE SHEET A1/A501 FOR WALL TYPES.
6. TWO BOLLARDS REQUIRED PER SECTIONAL DOOR JAMB. ALIGN WITH DOOR JAMB, SEE DETAIL C1/A501.
7. SEE SHEET A602 FOR WINDOW FRAME TYPES & GLAZING SCHED.
8. SEE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS IN CONCRETE SLAB.

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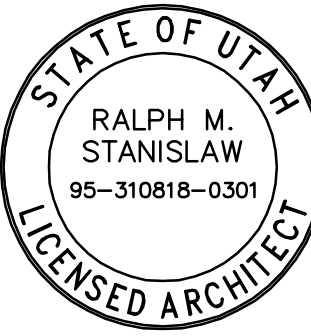
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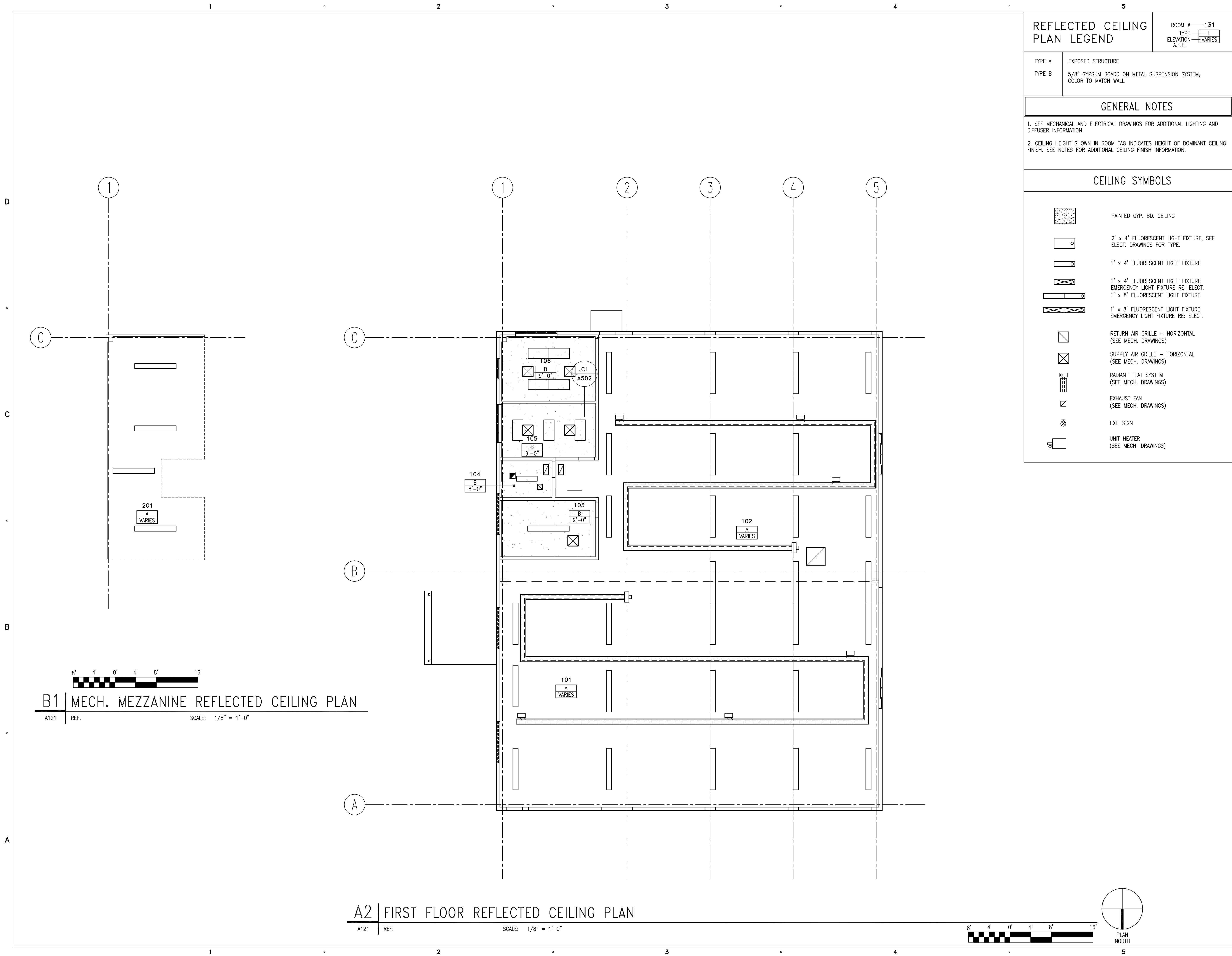
PROJECT NO:	050008.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	1/8"=1'-0"
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

FIRST FLOOR AND  
MEZZANINE PLANS

A101



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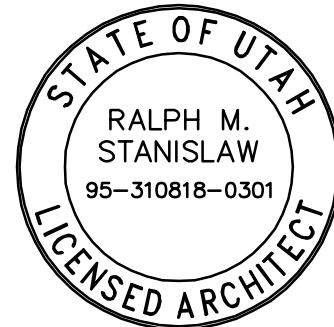
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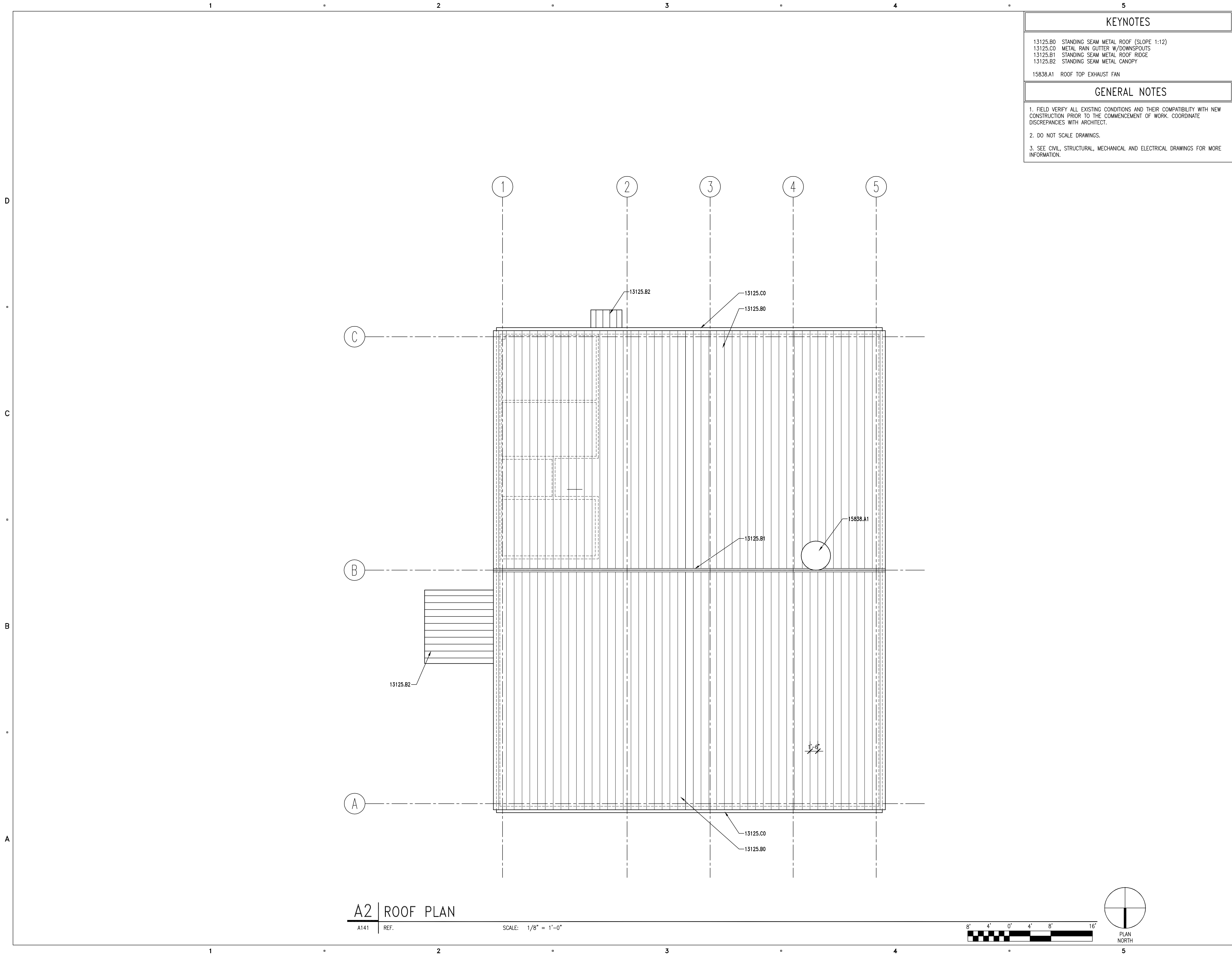
KEY PLAN

SHEET TITLE

FIRST FLOOR AND  
MEZZANINE  
REFLECTED  
CEILING PLANS

A121





KEYNOTES

13125.B0 STANDING SEAM METAL ROOF (SLOPE 1:12)  
13125.C0 METAL RAIN GUTTER W/DOWNSPOUTS  
13125.B1 STANDING SEAM METAL ROOF RIDGE  
13125.B2 STANDING SEAM METAL CANOPY

15838.A1 ROOF TOP EXHAUST FAN

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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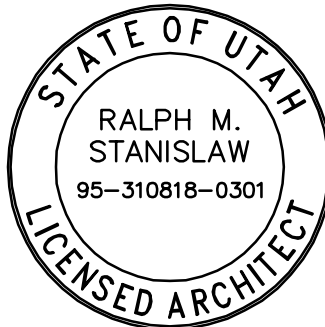


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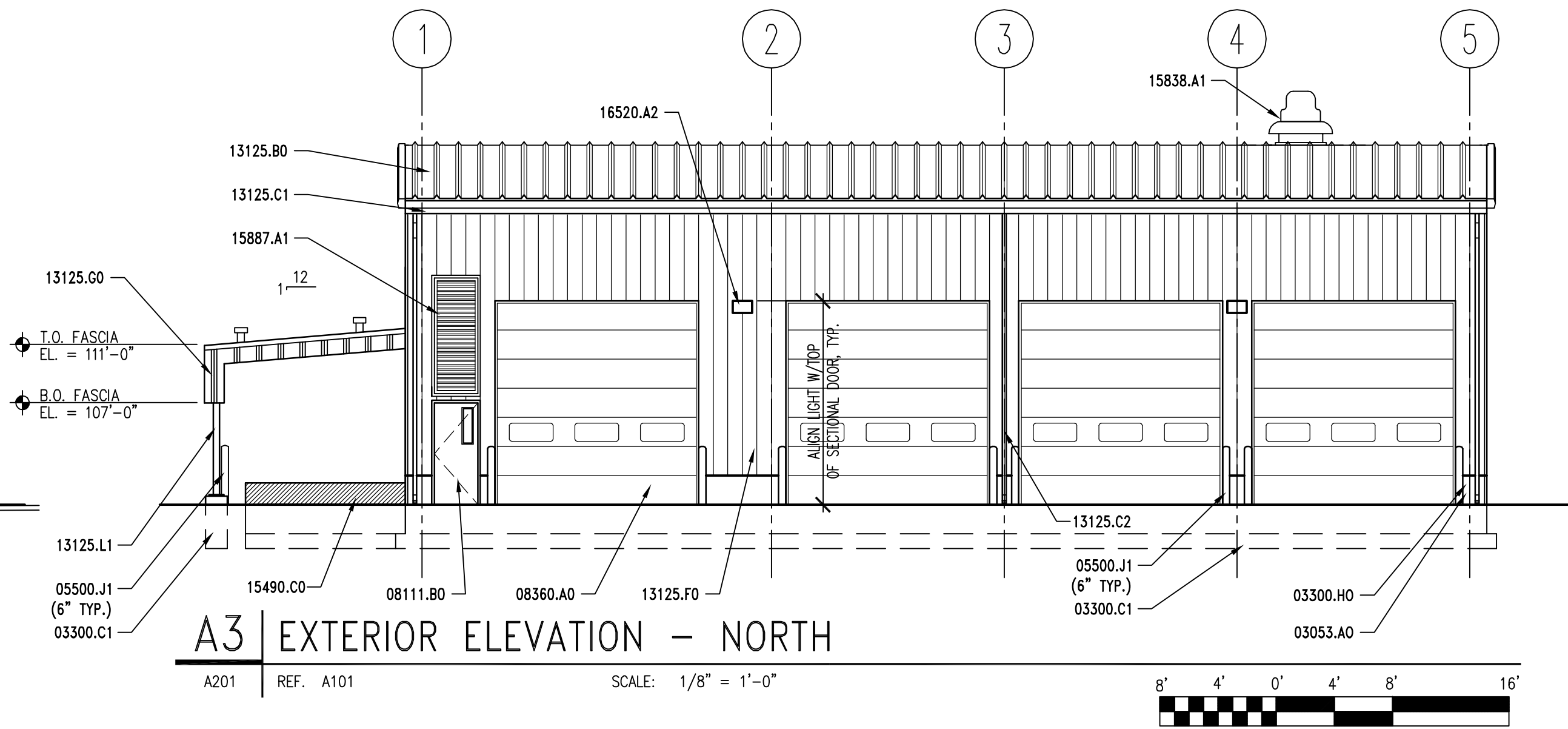
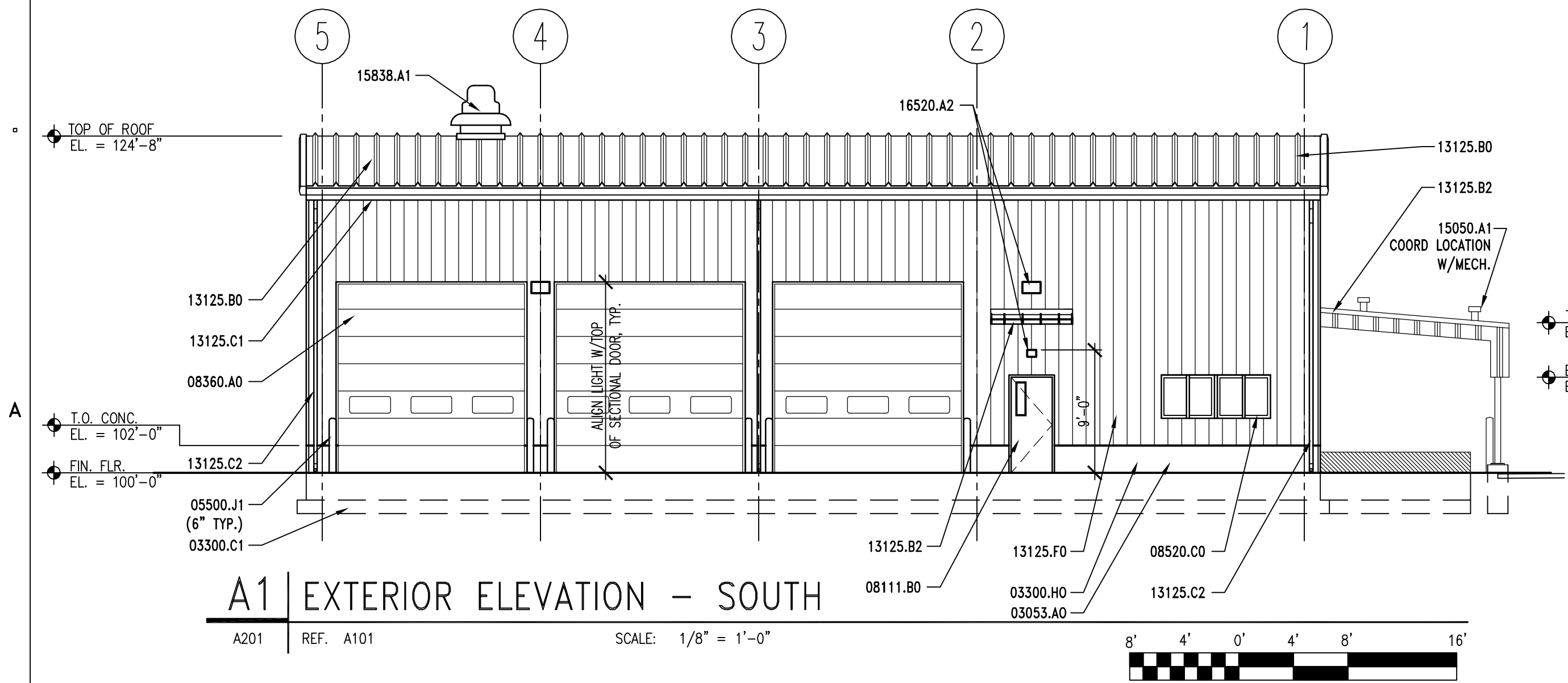
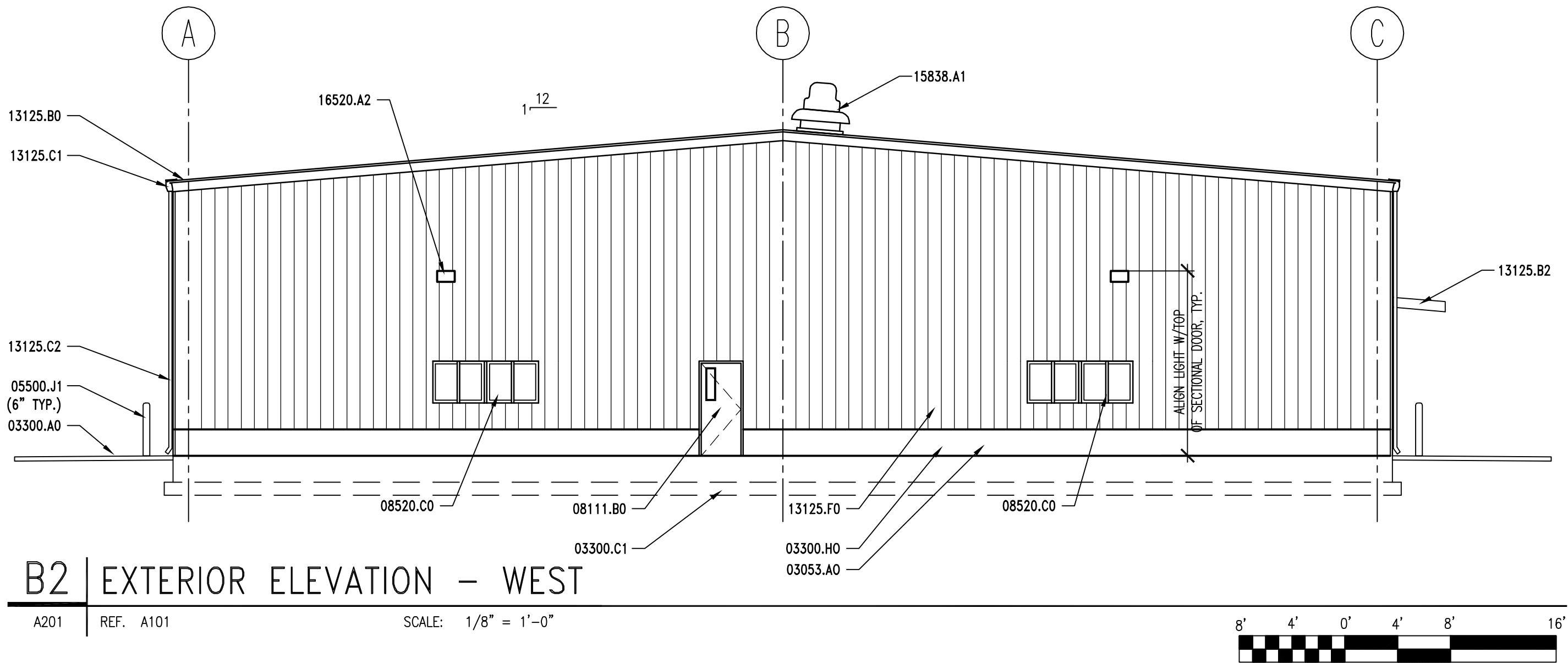
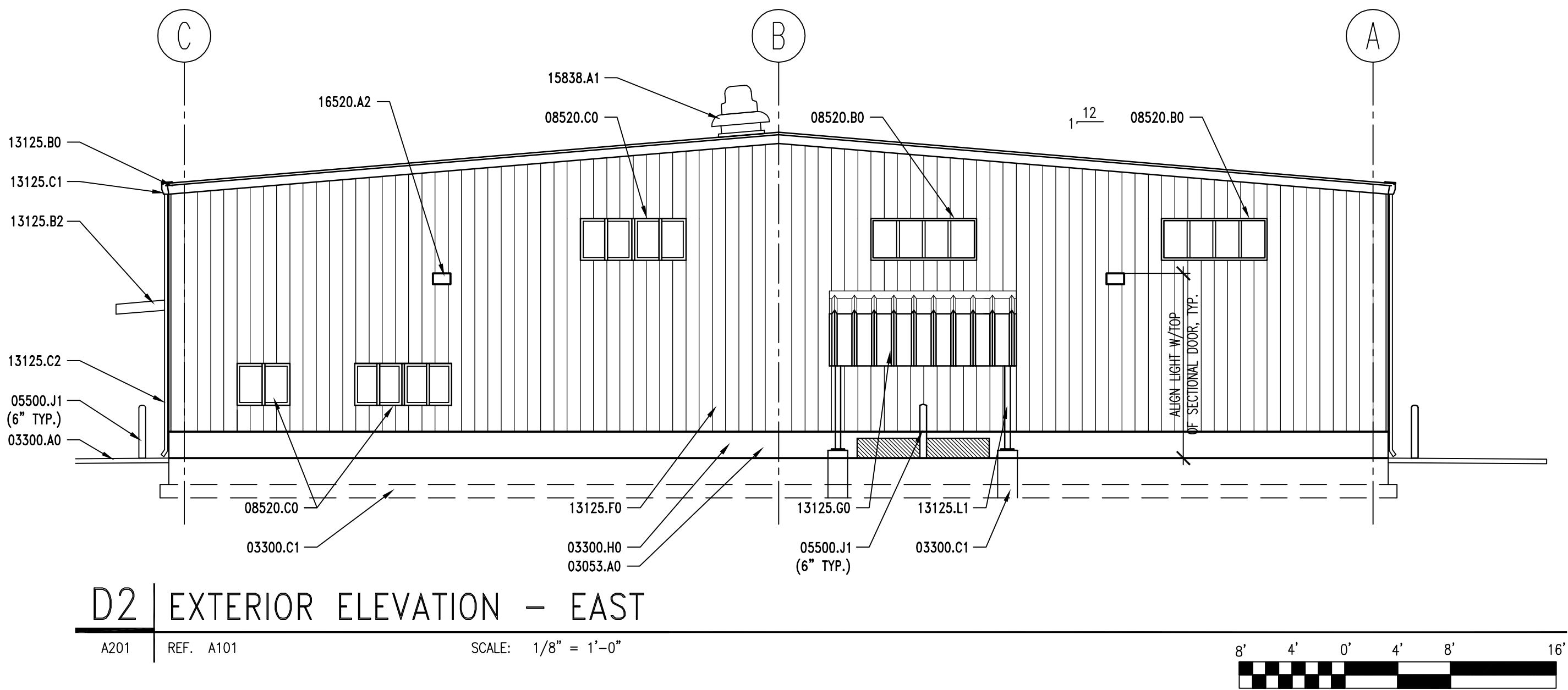
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DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

ROOF PLAN

A141



## KEYNOTES

- 03053.A0 CONCRETE WATER PROOFING SYSTEM  
03300.A0 CONCRETE SLAB ON GRADE  
03300.C1 FOOTING-RE: STRUCTURAL  
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
- 05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
- 08111.B0 HOLLOW METAL DOOR  
08360.A0 OVERHEAD SECTIONAL DOOR  
08520.B0 FIXED WINDOW  
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
- 13125.B0 STANDING SEAM METAL ROOF  
13125.B2 STANDING SEAM METAL CANOPY  
13125.C1 METAL RAIN GUTTER  
13125.C2 DOWNSPOUT  
13125.F0 METAL WALL PANEL  
13125.F2 METAL FACIA  
13125.L1 STEEL COLUMN - GALV. - PAINTED
- 15050.A1 MECH. PENETRATIONS  
15490.C0 WASTE OIL PIT  
15838.A1 ROOF TOP EXHAUST FAN  
15887.A1 LOUVER W/ BIRD SCREEN
- 16520.A2 EXTERIOR WALL MOUNTED LIGHTS

## EXTERIOR COLOR SCHEDULE

- (13125.B0) METAL ROOF & FASCIA: PREFINISHED TAN TO MATCH EXIST. BLDGS.  
(13125.F0) METAL WALL PANEL: PREFINISHED TAN TO MATCH EXIST. BLDGS.  
(13125.C2) DOWN SPOUTS: PREFINISHED TO MATCH METAL ROOF  
(08111.B0) DOORS & FRAMES: WHITE  
(05500.J1) BOLLARDS: OSHA SAFETY YELLOW  
(08520.B0) WINDOW FRAMES: PREFINISHED WHITE  
(15490.C0) WASTE OIL PIT: OSHA SAFETY RED

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE SHEET A602 FOR WINDOW TYPES AND DETAILS.
4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

CLIENT

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MAINTENANCE FACILITY  
STATION #4534  
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DESIGNER

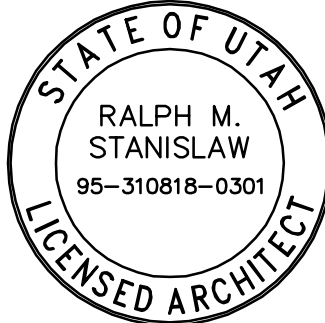
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SCALE:	1/8"=1'-0"
DATE:	SEPTEMBER 2, 2005

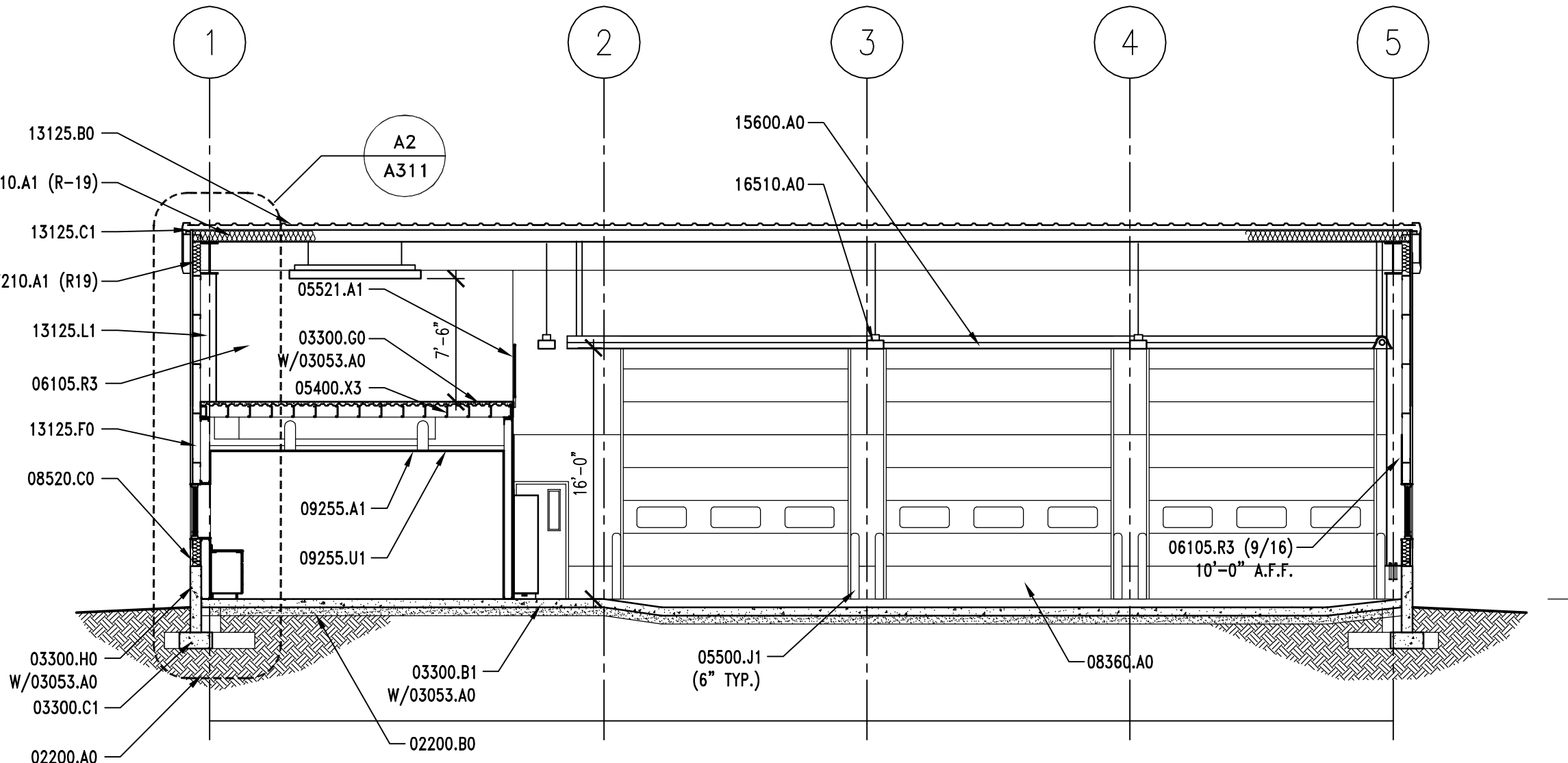
KEY PLAN

SHEET TITLE

EXTERIOR ELEVATIONS

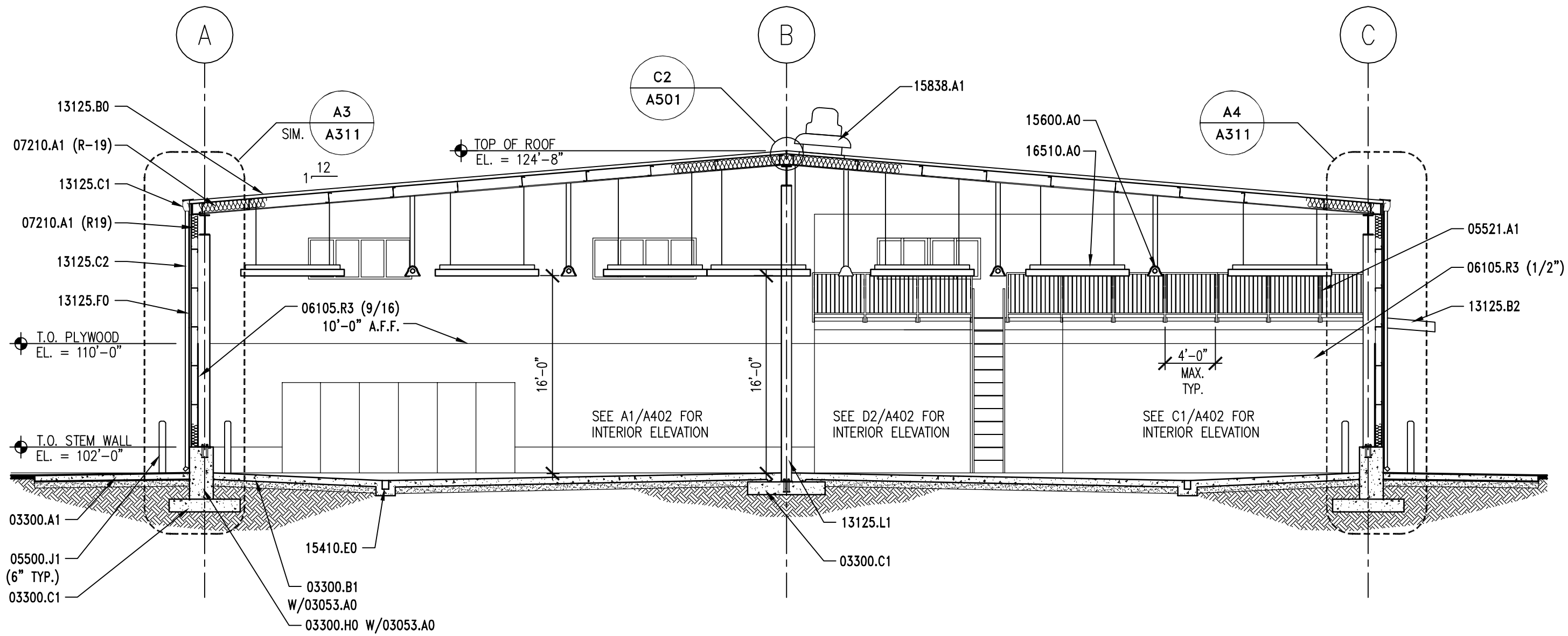
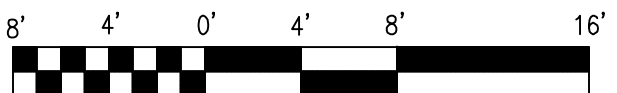
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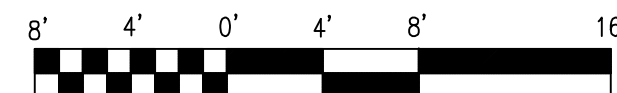
C2 BUILDING SECTION

A301 REF. A101 SCALE: 1/8" = 1'-0"



A1 BUILDING SECTION

A301 REF. A101 SCALE: 1/8" = 1'-0"



## KEYNOTES

02200.A0	COMPACTED FILL
02200.B0	GRAVEL BASE
03053.A0	CONCRETE WATER PROOFING SYSTEM
03300.A1	CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL
03300.B1	CONCRETE SLAB - RE: STRUCTURAL
03300.C1	FOOTING-RE: STRUCTURAL
03300.H0	FOUNDATION WALL, RE: STRUCTURAL
03300.G0	CONCRETE OVER METAL DECK - RE: STRUCTURAL
05500.J1	PIPE BOLLARD (DIAMETER) GALV. AND PAINTED
05521.A1	1 1/2" O.D. STEEL GUARDRAIL
06105.R3	G1S A/C PLYWOOD (THICKNESS)
07210.A1	BATT INSULATION (R-VALUE)
08360.A0	OVERHEAD SECTIONAL DOOR
08520.B0	FIXED WINDOW
08520.C0	ALUM. WINDOW W/GLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.U1	SUSPENDED CEILING SYSTEM
13125.B0	STANDING SEAM METAL ROOF
13125.B2	STANDING SEAM METAL CANOPY
13125.C1	METAL RAIN GUTTER
13125.C2	DOWNSPOUT
13125.E3	RAKE TRIM
13125.F0	METAL WALL PANEL
13125.L1	STEEL COLUMN - GLAV. - PAINTED
15410.E0	TRENCH DRAIN
15600.A0	NATURAL GAS RADIANT HEATING SYSTEM
15838.A1	ROOF TOP EXHAUST FAN
16510.A0	INTERIOR LIGHTS

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.
2. DO NOT SCALE DRAWINGS.
3. SEE SHEET A602 FOR WINDOW TYPES AND DETAILS.
4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

## CLIENT

MEADOW  
MAINTENANCE FACILITY  
STATION #4534  
400 N. MAIN  
MEADOW, UTAH 84644

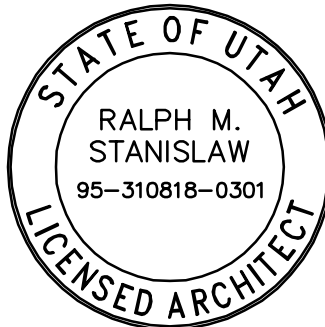
## DESIGNER



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## CONSULTANTS

## PROFESSIONAL SEAL



## ISSUE

09/02/05	BID DOCUMENTS
08/12/05	FINAL REVIEW SET
07/18/05	PRELIMINARY REVIEW SET

MARK	DATE	DESCRIPTION
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PROJECT NO: 050008.01

DRAWN BY: K. PHILLIPS

CHECKED BY: R. STANISLAW

SCALE: 1/8"=1'-0"

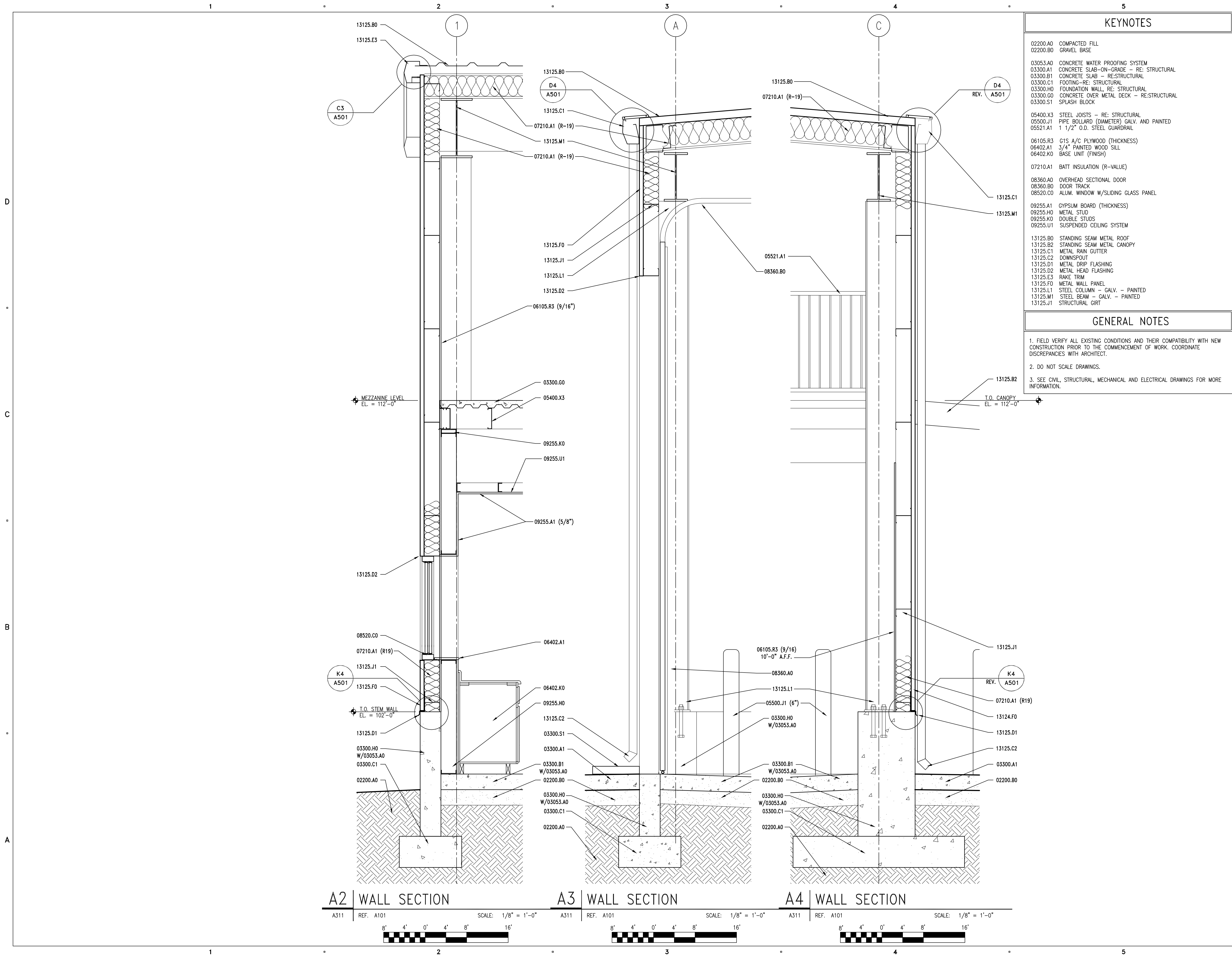
DATE: SEPTEMBER 2, 2005

## KEY PLAN

## SHEET TITLE

## BUILDING SECTIONS

A301



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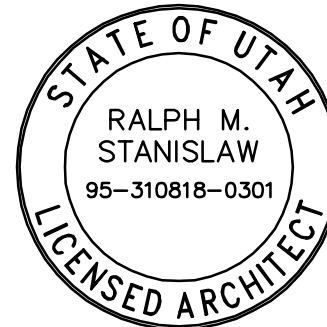
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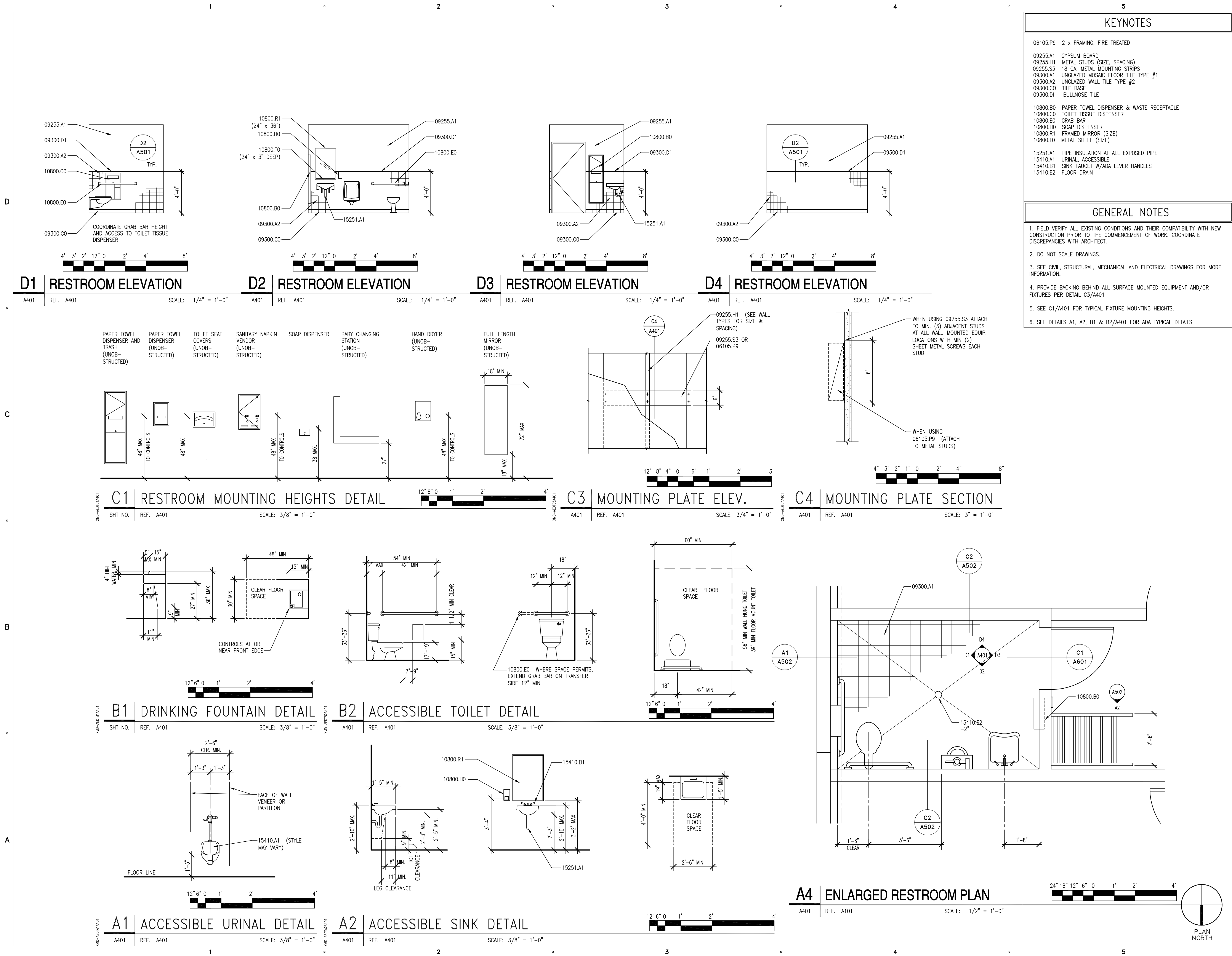
KEY PLAN

SHEET TITLE

WALL SECTIONS

A311





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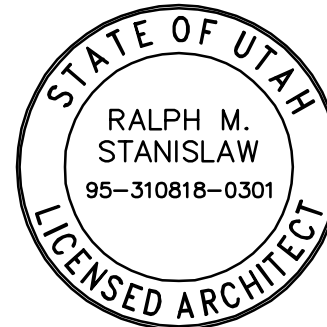
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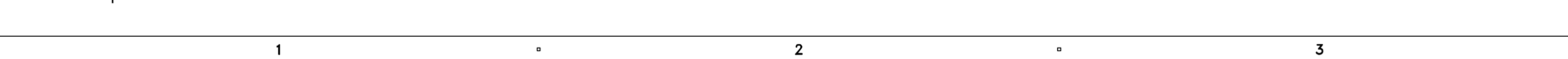
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DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

ENLARGED RESTROOM  
FLOOR PLAN, INTERIOR  
ELEVATIONS AND  
DETAILS

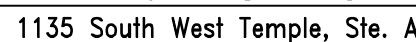
A401



A402

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3. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

## PROFESSIONAL SEAL

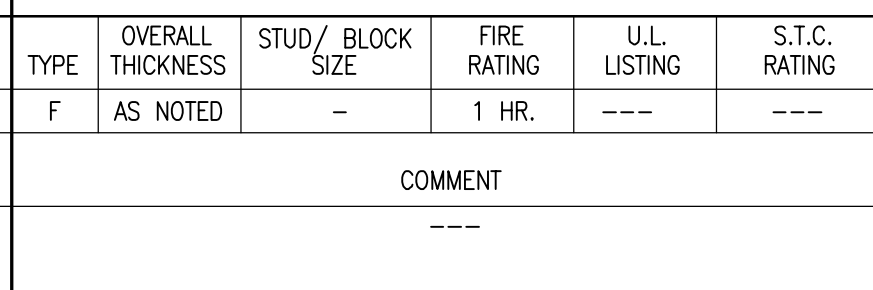


PROJECT NO:	050008.01
DRAWN BY:	K. PHILLIPS
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SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

## KEY PLAN

## SHEET TITLE

# A501

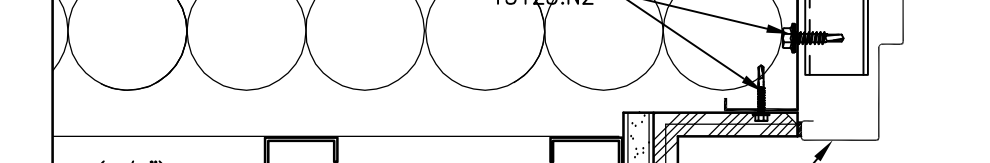


A501	REF. A101
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SCALE: 1" = 1'-0"







0 4 5

03055.30	CONCRETE WATER PROOFING SYSTEM
03030.01	CONCRETE SLAB ON GRADE -- RE: STRUCTURAL
03300.10	FOUNDATION WALL, RE: STRUCTURAL
03300.P5	ISOLATION JOINT
06105.R3	G15 A/C PLYWOOD (THICKNESS)
07210.A1	BATT INSULATION (R--VALUE)
07901.A0	SEALANT
08111.A0	PRESSED METAL FRAME
08111.B0	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR
08360.A0	OVERHEAD SECTIONAL DOOR
08360.B0	DOOR TRUCK
08360.D0	WEATHERSTRIPPING
08360.D0	DOOR GUIDE
08710.A0	THRESHOLD
09255.A1	GYPSON BOARD (THICKNESS)
09255.H1	METAL STUDS (SIZE)
09300.A1	UNGLAZED CERAMIC MOSAIC TILE
09300.G1	MORTAR BED
09300.G4	WATERPROOF MEMBRANE
13125.D2	METAL HEAD FLASHING
13125.D6	DOOR HEAD FLASHING
13125.D7	JAMB FLASHING
13125.E5	WALL CLOSURE
13125.E7	METAL OUTSIDE CLOSURE
13125.E9	FRAMED OPENING HEADER
13125.F0	METAL WALL PANEL
13125.F1	METAL WALL FASTENER
13125.H1	METAL ANGLE
13125.J1	STRUCTURAL GIP
13125.N2	FASTENER (SPACING)
13125.P2	SEALANT
13125.P3	THERMAL BREAK

1. SEE SHEET A602 FOR GLAZING TYPES.
2. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS

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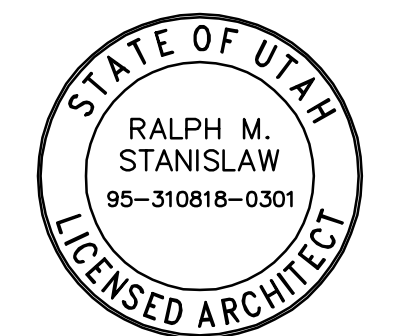
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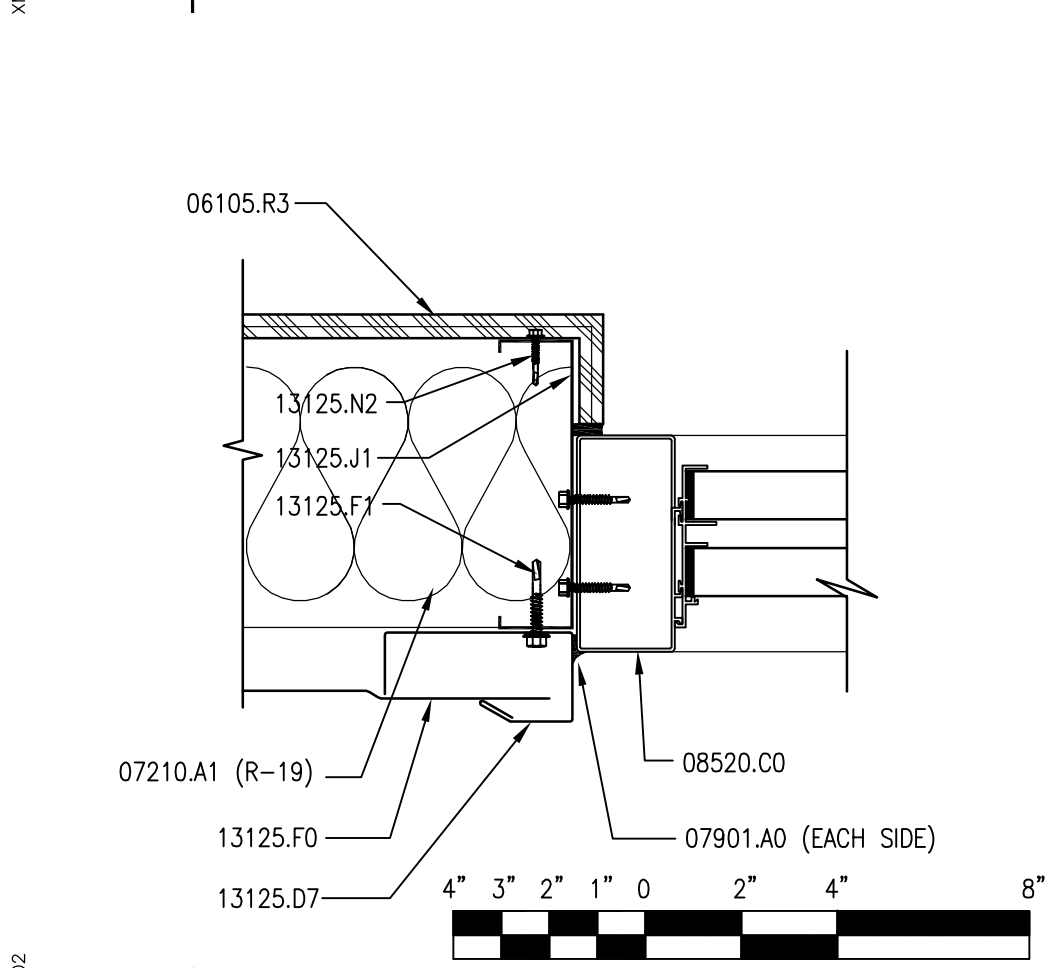
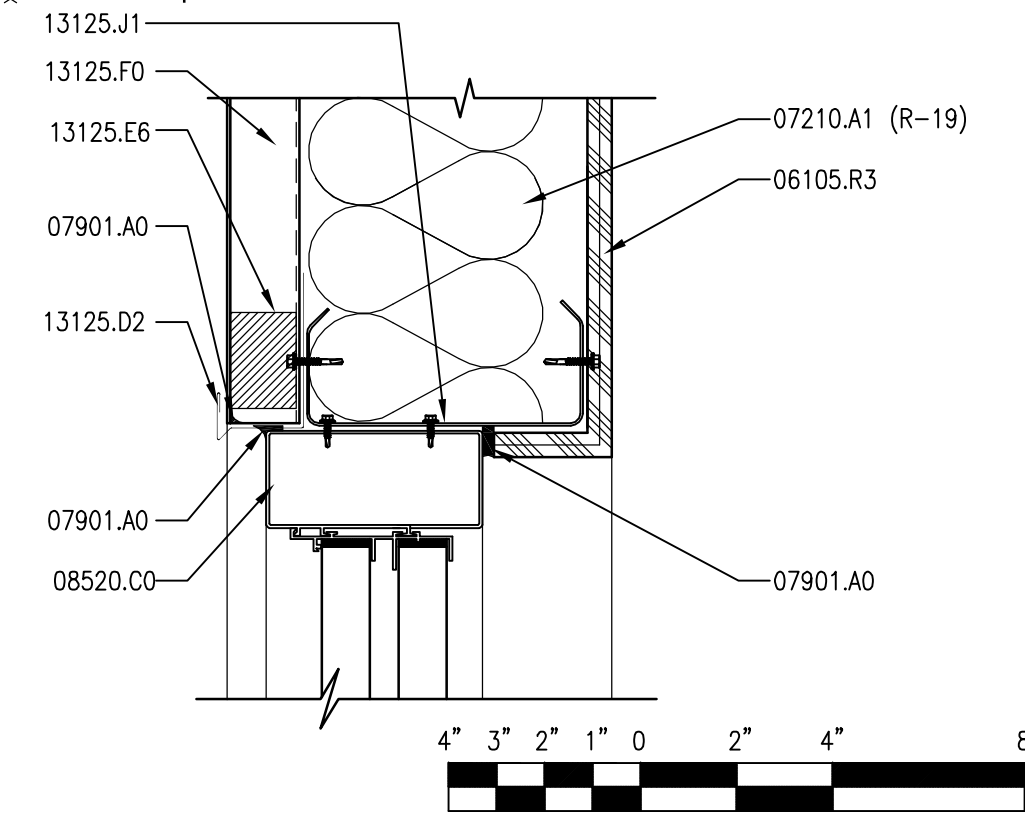
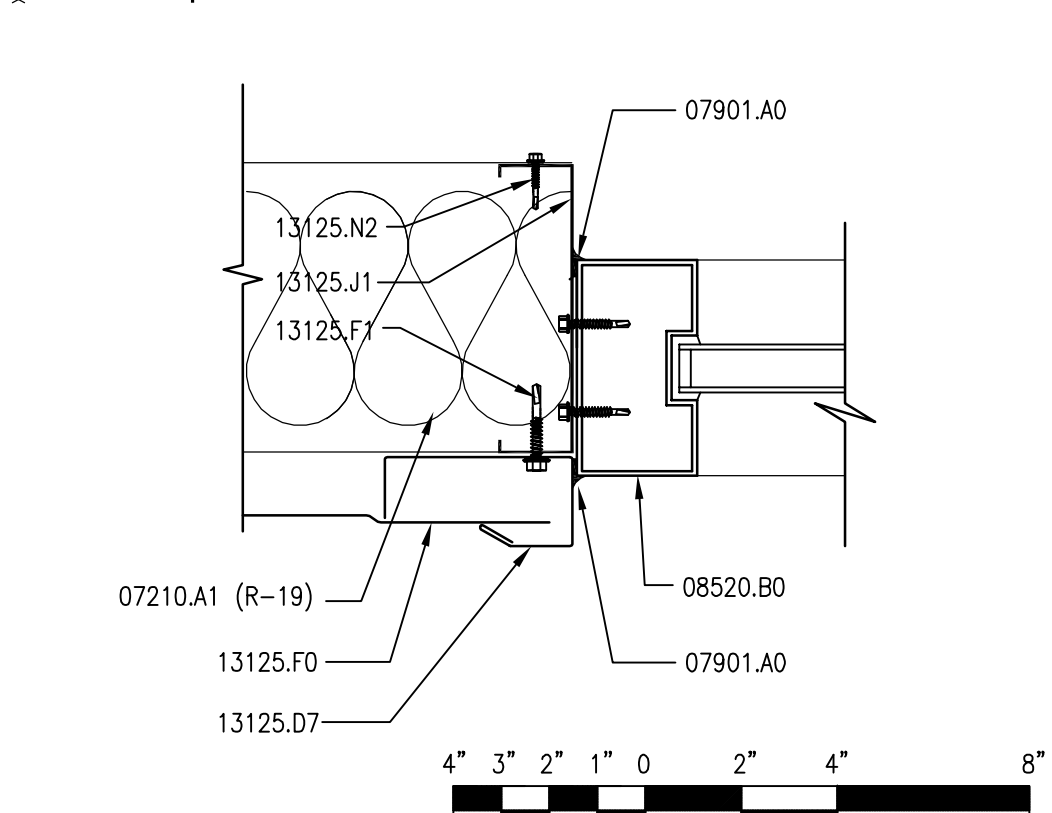
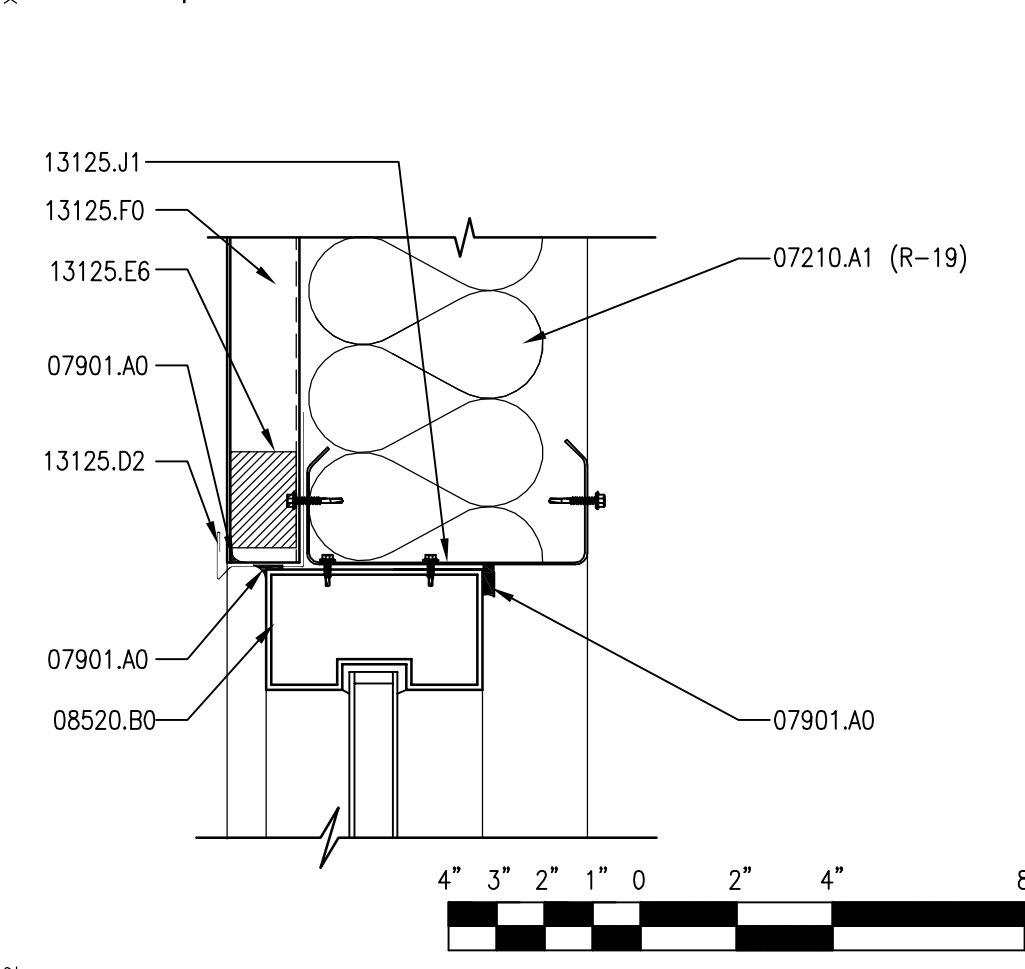
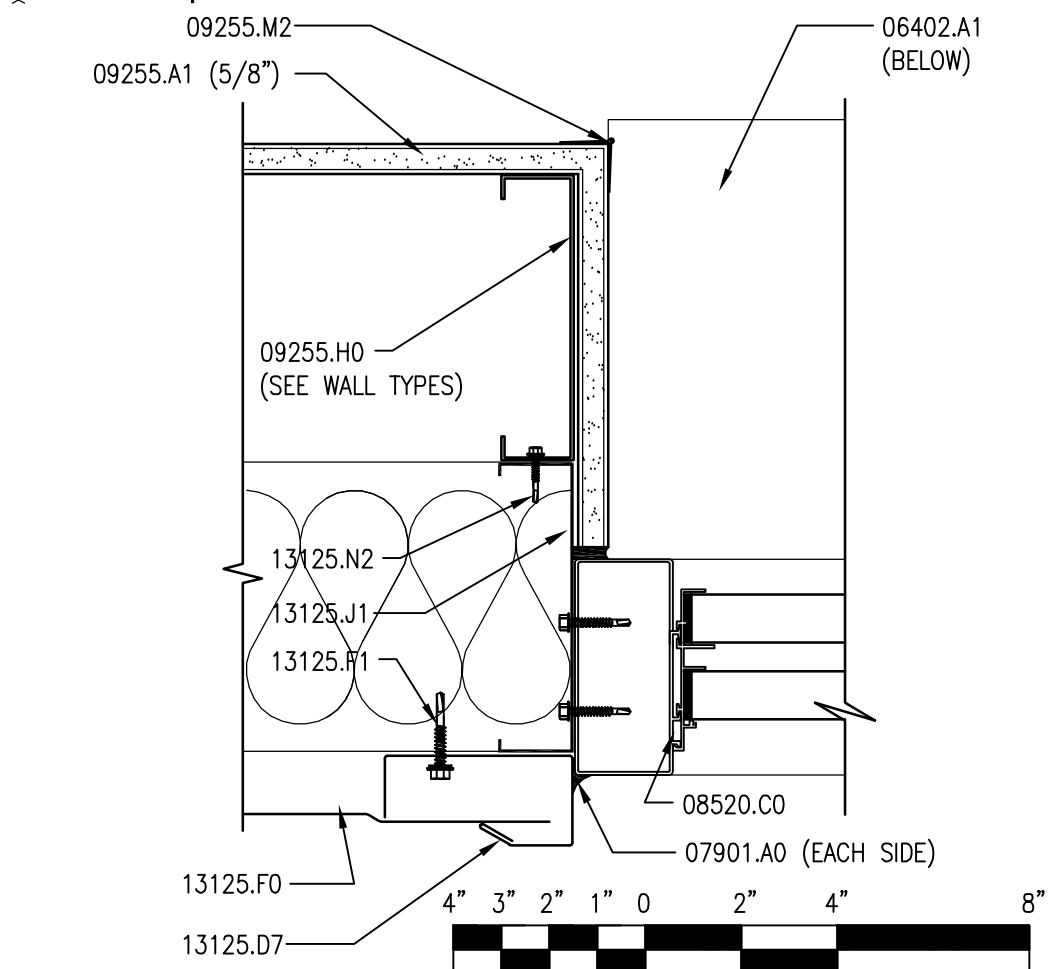
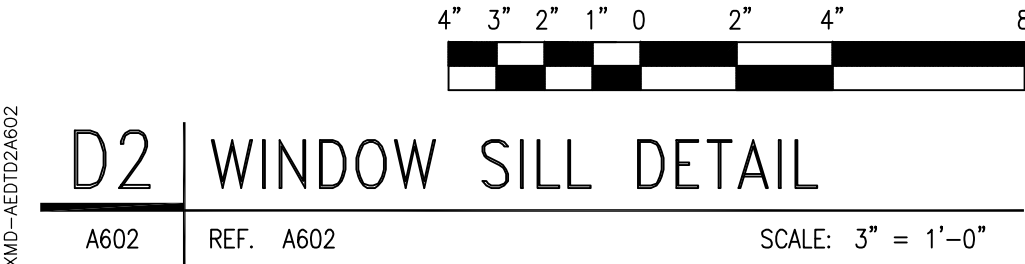
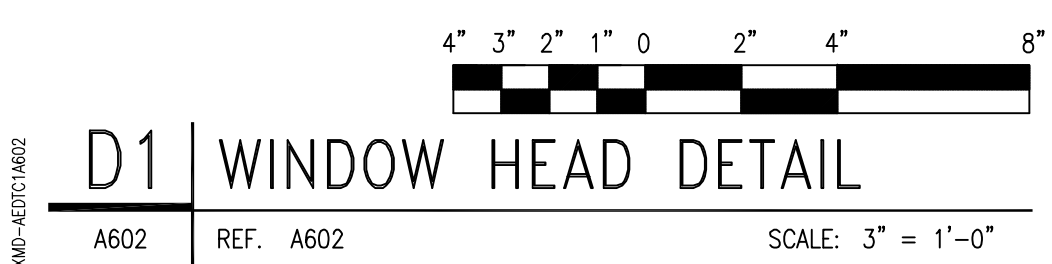
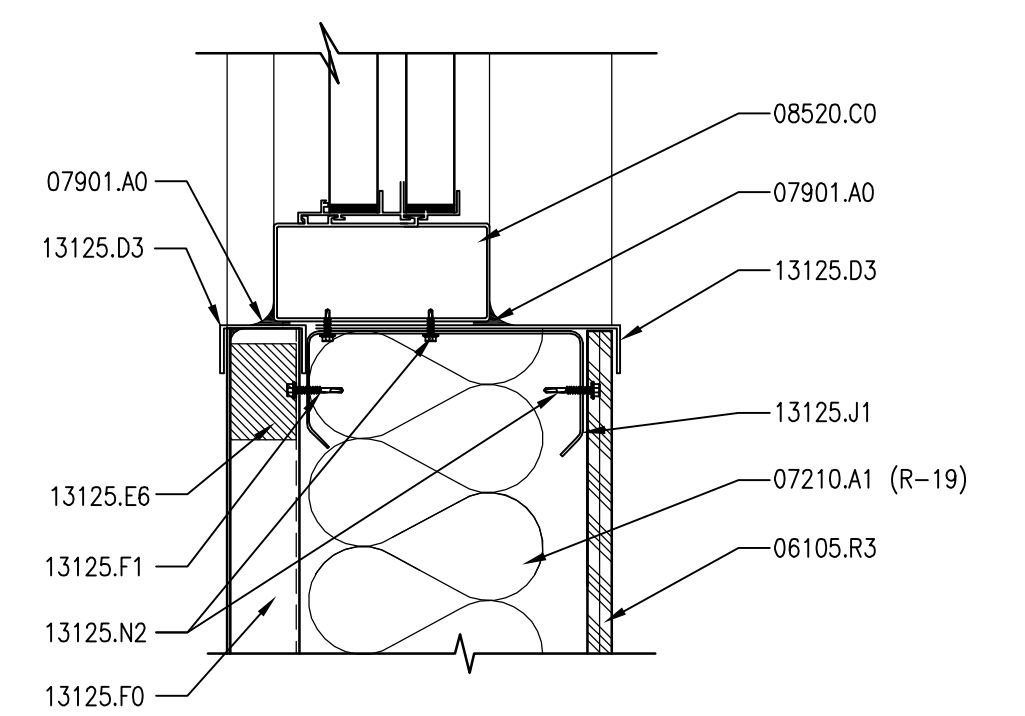
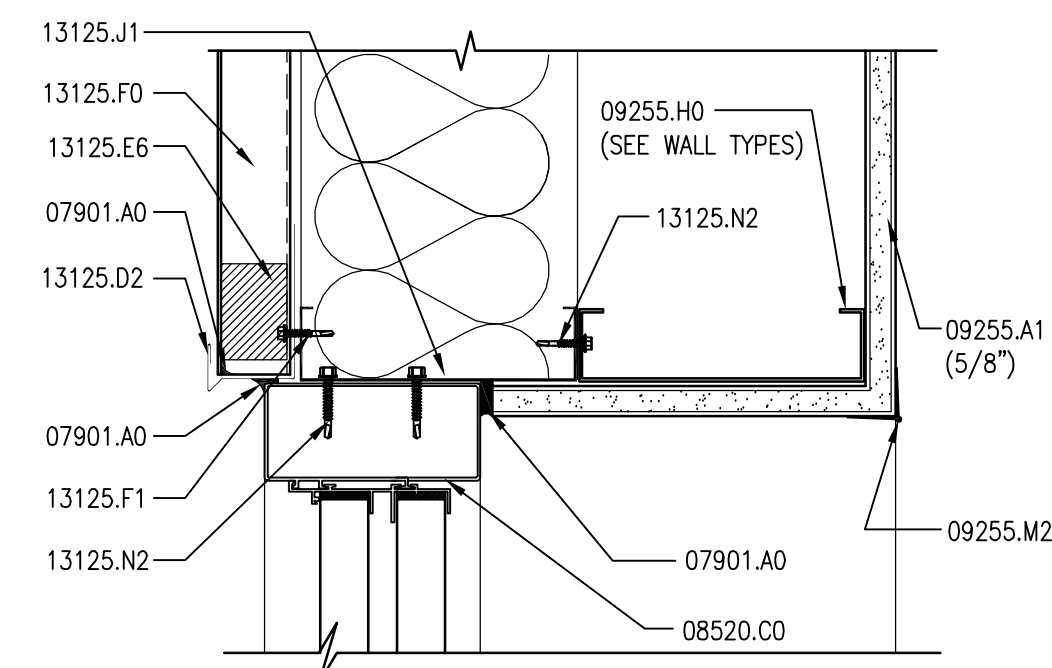
PROJECT NO:	050008.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

## KEY PLAN

**SHEET TITLE**

## DOOR SCHEDULE AND DETAILS

A601

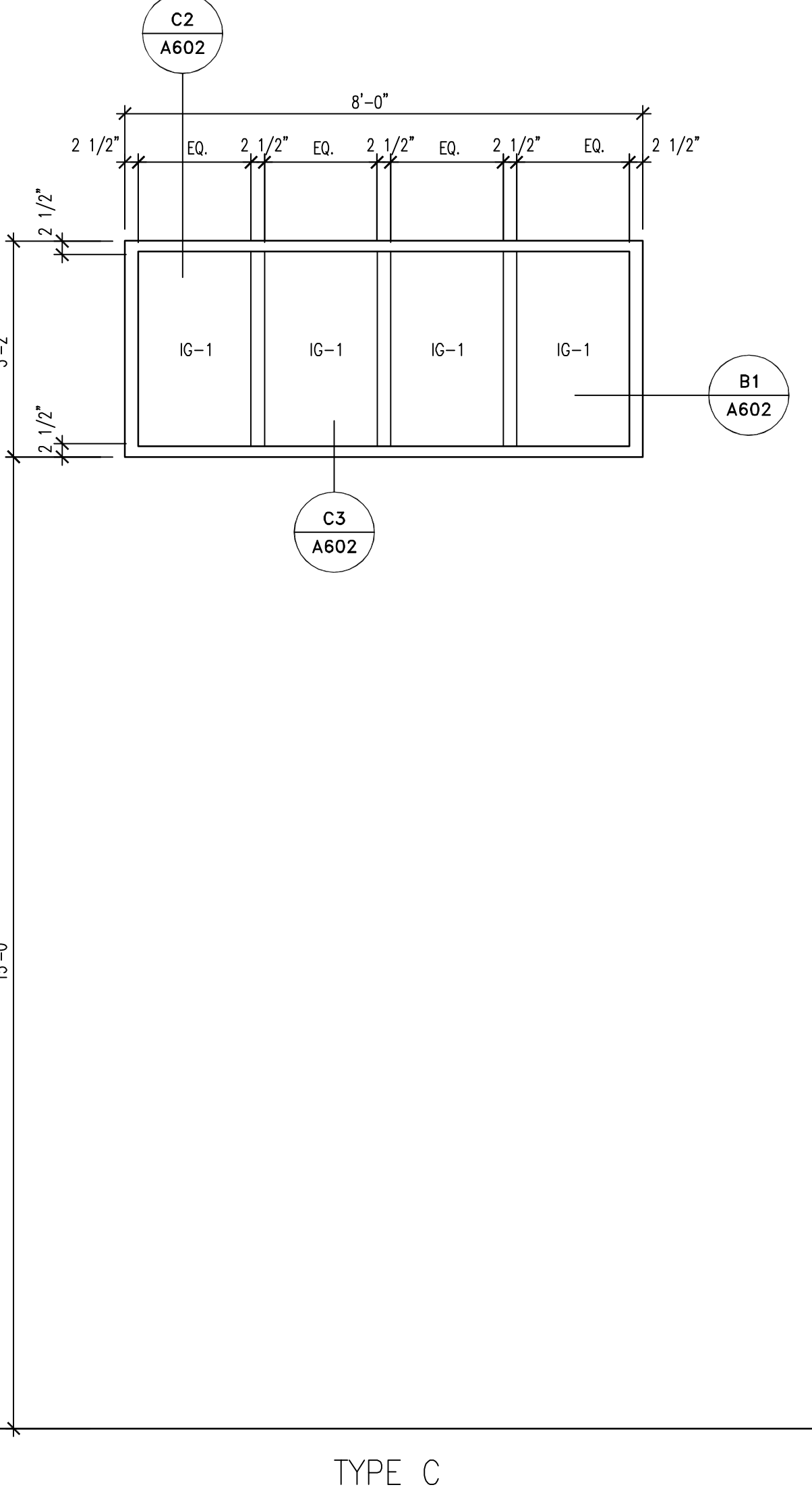
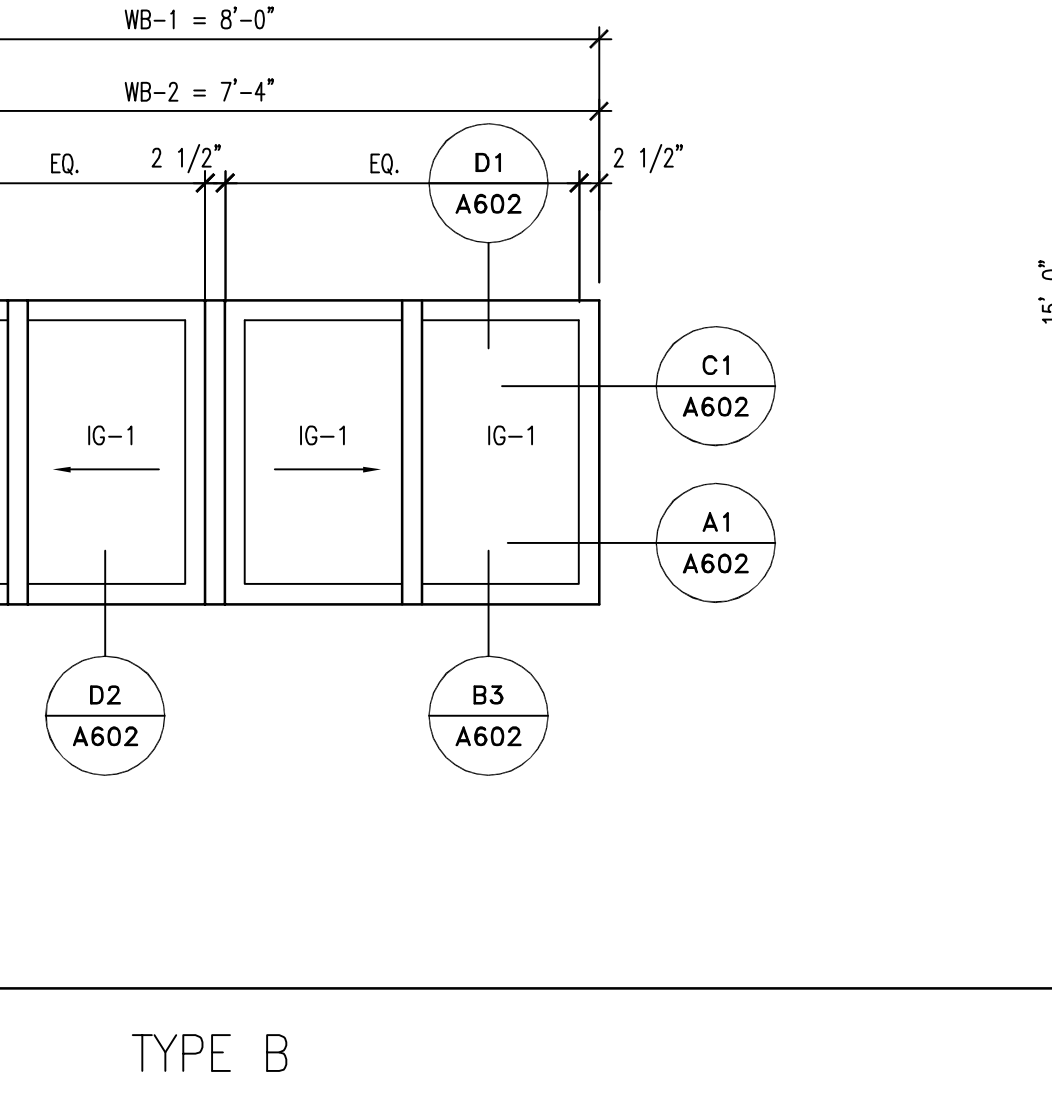
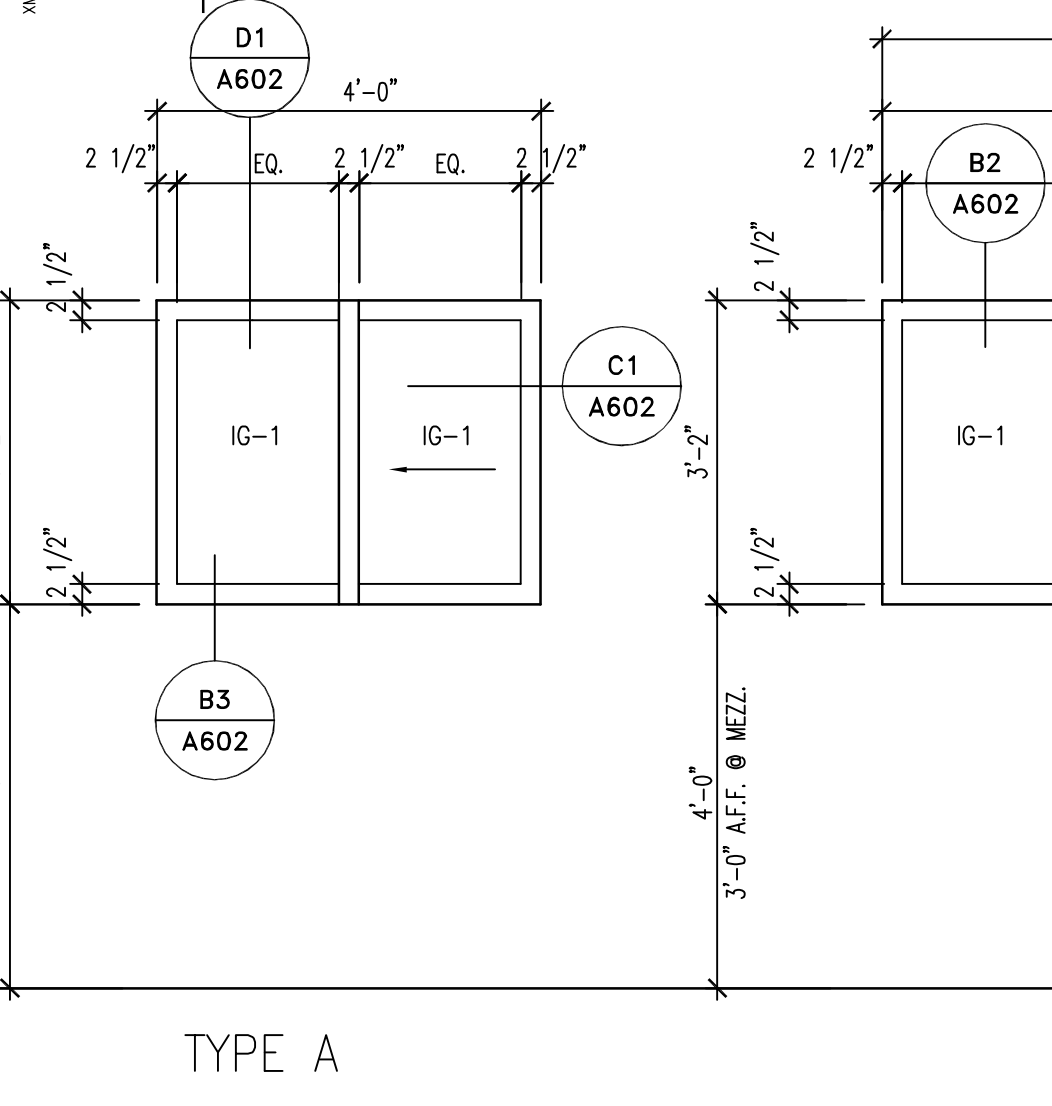
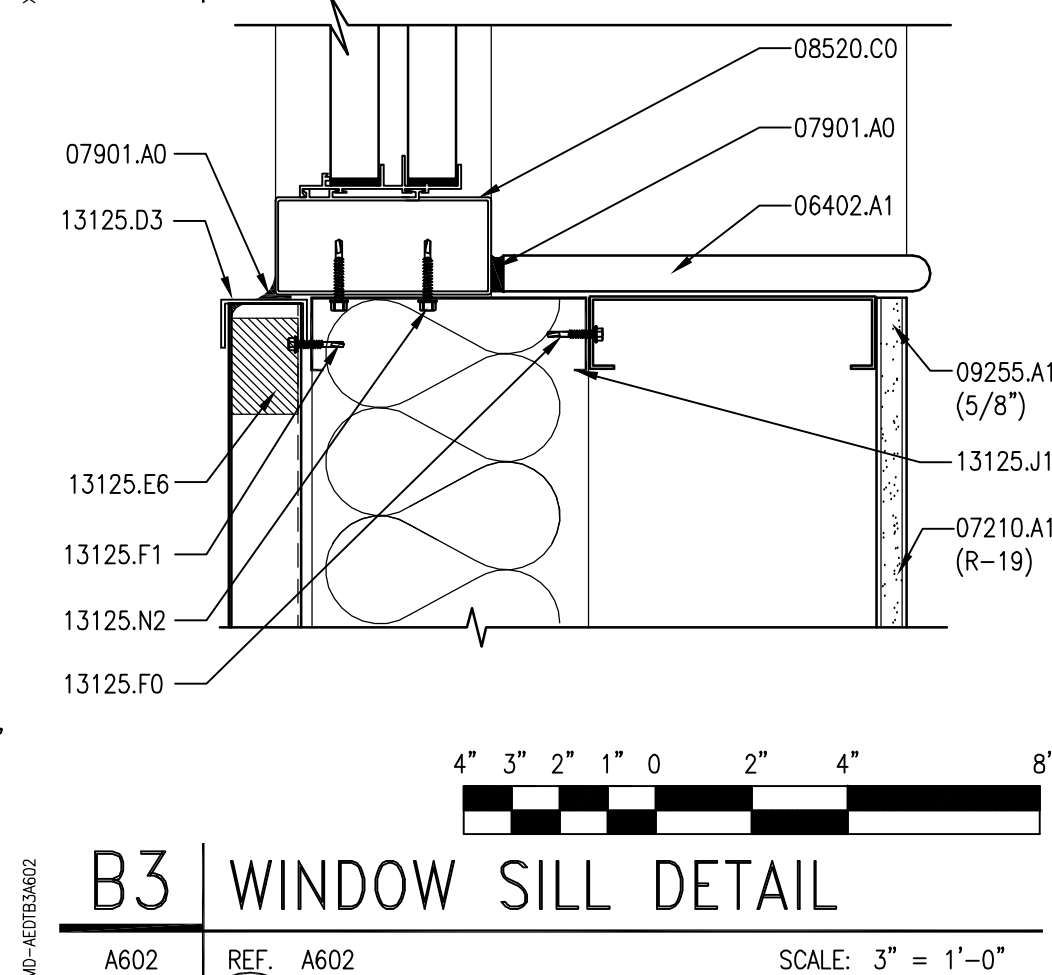
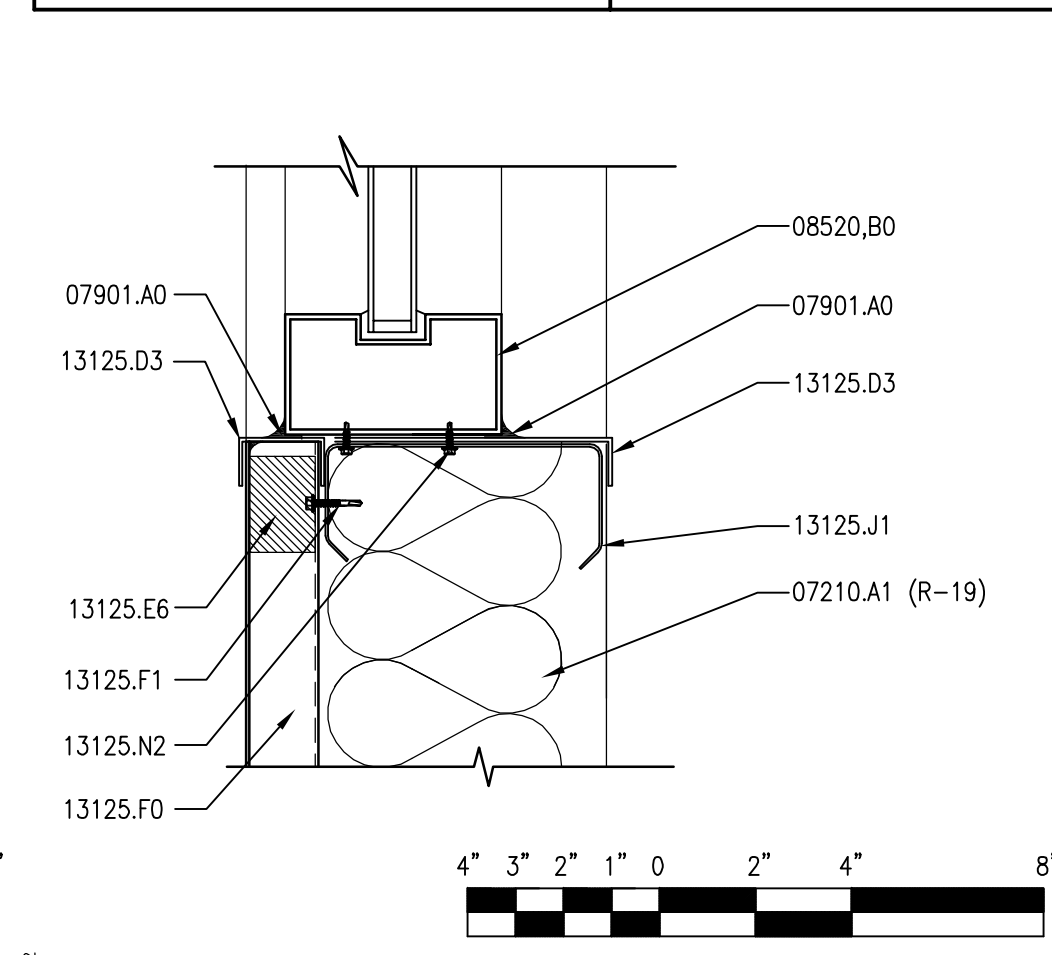


ROOM FINISH SCHEDULE										
ROOM NAME & NUMBER		FLOOR	BASE	WALLS				DOOR/FRAMES	P. LAM.	REMARKS
				WEST	EAST	NORTH	SOUTH			
101	MAINTENANCE BAY	4	-	-	1	1	1	1	-	-
102	VEHICLE STORAGE BAYS	4	-	1	1 & 3	1	1 & 3	1	-	SHIPS LADDER - MATCH DOOR FRAME COLOR #1
103	STORAGE	4	2	3	3	3	3	1	3	-
104	RESTROOM	3	3	2 & 4	2 & 4	2 & 4	2 & 4	2	-	USE BULLNOSE AT TOP OF WAINSCOT
105	TRAINING ROOM	2	1	2	2	2	2	2	1 & 2	PAINT WINDOW SILL TO MATCH DOOR COLOR #2
106	OFFICE	2	1	2	2	2	2	2	-	PAINT WINDOW SILL TO MATCH DOOR COLOR #2
201	MEZZANINE	4	-	-	1	-	1	-	-	PAINT GUARDRAIL & DECK ANGLE TO MATCH DOOR COLOR #1

ROOM FINISH LEGEND				
FLOOR	WALL	BASE	DOOR & FRAMES	PLASTIC LAMINATE
1. NOT USED	1. G15 A/C PLYWOOD - PAINTED BENJAMIN MOORE #2127-60 - FEATHER GRAY OR EQUAL	1. 4" RUBBER BASE - JOHNSONITE #49 - BEIGE OR EQUAL	1. PAINTED - BENJAMIN MOORE #2124-30 DEEP SILVER OR EQUAL	1. COUNTER TOP/CABINET FACE - WILSONART #4781-60 SUNSTONE OR EQUAL
2. 12" x 12" VINYL COMPOSITION TILE - ARMSTRONG STANDARD EXCELOX IMPERIAL TEXTURE #51858-SANDRIFT WHITE OR EQUAL	2. GYPSUM BOARD - PAINTED BENJAMIN MOORE - NAVAJO WHITE OR EQUAL	2. 4" RUBBER BASE - JOHNSONITE #38 - PEWTER OR EQUAL	2. PAINTED - ICI #427 - DEERFIELD OR EQUAL	2. CABINET FACE - WILSONART #4794-60 WINDSWEEP BRONZE OR EQUAL
3. 2" x 2" CERAMIC TILE - DALTILE, KEYSTONES, MEXICAN SAND SPECKLE W/MAPEI GROUT #05 - CHAMOIS OR EQUAL	3. GYPSUM BOARD - PAINTED BENJAMIN MOORE #2127-60 - FEATHER GRAY OR EQUAL	3. 2" x 2" COVED TILE BASE - DALTILE, KEYSTONES, MEXICAN SAND SPECKLE OR EQUAL		3. SHELVING - WILSONART #073-60 PEWTER OR EQUAL
4. INTEGRAL XYPEX ADMIX WITH ASHORD FORMULA SEALANT.	4. 4" x 4" CERAMIC WALL TILE - DALTILE #6520 - MATTE FAWN W/MAPEI GROUT #05 - CHAMOIS OR EQUAL			

KEYNOTES	
06105.R3	G1S A/C PLYWOOD (THICKNESS)
06402.A1	3/4" PAINTED WOOD SILL
07210.A1	BATT INSULATION (R-VALUE)
07901.A0	SEALANT
08520.B0	FIXED WINDOW
08520.C0	ALUM. WINDOW W/SLIDING GLASS PANEL
09255.A1	GYPSUM BOARD (THICKNESS)
09255.H0	METAL STUD
09255.M2	METAL CORNER BEAD (TYP)
13125.D2	METAL HEAD FLASHING
13125.D3	METAL SILL FLASHING
13125.D7	JAMB FLASHING
13125.E6	WALL CLOSURE
13125.F0	METAL PANEL
13125.F1	METAL WALL FASTENER
13125.J1	STRUCTURAL GIRT
13125.N2	FASTENER (SPACING)
GENERAL NOTES	
1. ALL FLASHING TO BE PAINTED TO MATCH WINDOW FRAMES	
2. SEE SPECIFICATIONS FOR ALL GLAZING TYPES.	



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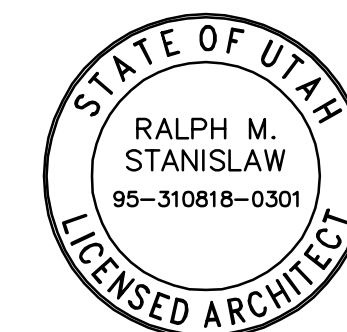
## ANTS

## CONSULTANTS

## GENERAL NOTES

1. ALL FLASHING TO BE PAINTED TO MATCH WINDOW FRAMES.
2. SEE SPECIFICATIONS FOR ALL GLAZING TYPES.

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PROJECT NO:	050008.01
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CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

## KEY PLAN

**SHEET TITLE**

## WINDOW FRAME TYPES, GLAZING & FINISH SCHEDULES AND DETAILS

A602



12345

GENERAL STRUCTURAL NOTES

GENERAL

- The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown.
- The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
- Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
- The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
- Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
- Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
- Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
- Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
- Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

- |  |   |
|--|---|
| 1. Governing Building Code                         | International Building Code 2003                        |
| 2. Mezzanine Floor Loads                           |   |
| a. Dead  | 42 psf  |
| b. Live  | 125 psf   |
| 3. Seismic Loads                                   |   |
| a. Short Period Mapped Spectral Acceleration       | S <sub>S</sub> = 0.8                                    |
| b. Soil Site Class                                 | D   |
| c. Short Period Site Coefficient                   | F <sub>a</sub> = 1.0                                    |
| d. 5% Damped Design Spectral Response Acceleration | S <sub>D5</sub> = 2/3 * F <sub>a</sub> * S <sub>S</sub> |
| e. Seismic Importance Factor                       | I <sub>e</sub> = 1.00                                   |
| f. Response Modification Coefficient               | R = 3.0   |
| g. Seismic Response Coefficient                    | C <sub>s</sub> = S <sub>D5</sub> * I <sub>e</sub> / R   |
| h. W   | Dead Loads of Structure                                 |
| i. Building Seismic Design Category                | D   |
| j. System Overstrength Factor                      | 3.0   |
| k. Deflection Amplification Factor                 | 3.0   |
| l. Base Shear                                      | V = C <sub>s</sub> * W = 0.178 W (Strength Design)      |
| 5. Wind Loads                                      |   |
| a. Wind Velocity (3 Second Gust)                   | 90 mph  |
| b. Exposure Type                                   | C   |
| c. Wind Importance Factor                          | 1.00  |

FOUNDATION

- Soils Investigation Report: None
- Soil bearing pressure: 1500 psf - Assumed by owner.
- Frost Protection: 30 inches minimum.
- Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

EARTHWORK

- Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
- Proof roll the entire building pad area with normal compaction equipment to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete.
- Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3 inches and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90 percent for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8 inches in uncompacted thickness.
- Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4 inches thick. The granular layer shall have a maximum size less than 1 inch with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
- Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

- Materials, unless noted otherwise:
  - Normal weight aggregates ASTM C 33
  - Reinforcing Steel ASTM 615 Grade 60 (Fy = 60 ksi)  
Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.  
ASTM A496
  - Deformed Bar Anchors (DBA)
  - Admixtures:
    - Air-entraining admixtures comply with ASTM C 260 (when used).
    - Calcium chloride bars not be added to the concrete mix.
  - Type I cement complying with ASTM C-150 shall be used for all concrete.
  - The water/cement ratios shall meet the requirements of ACI 318.
  - Provide air entraining as recommended by ACI 318.
  - No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
- Compressive strengths of concrete at 28 days shall be as follows:
  - Footings .....3,000 psi
  - Interior Slabs on Grade .....4,000 psi
  - Walls .....3,000 psi
  - Normal Weight concrete over Steel Deck .....3,500 psi
  - All Site Concrete .....4,000 psi
- 3" thick (total thickness) normal weight concrete slab shall be poured over the steel deck. Reinforce slab with 6" x 6" - W2 1W/2 1 welded wire fabric minimum, unless noted otherwise. Welded Wire Fabric shall be placed 1" to 1-1/2" below the top of the slab.
  - At contractor's option, the welded wire fabric may be substituted with 100% virgin polypropylene synthetic fiber containing no reprocessed olefin materials and specifically manufactured to an optimum gradation for use as concrete secondary reinforcement. Application shall be 1.5 lbs minimum per cubic yard.
- Only one grade or type of concrete shall be poured on the site at any given time.
- The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
  - Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
  - Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day specified compressive strength.
- Reinforcement shall have the following concrete cover:  
Cast-in-place Concrete: ..... Clear Cover
  - Cast against and permanently exposed to earth .....3"
  - Formed concrete exposed to earth or weather:
    - #6 thru #18 bars .....2"
    - #5 and smaller bars .....1-1/2"
  - Concrete not exposed to weather or in contact with ground:
    - Slabs, Walls, Joists, #11 bars and smaller .....3/4"
    - Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals .....1-1/2"
- Construction Joints and Control Joints:
  - Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
  - Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
    - Saw cut a depth of 1/4 the thickness of the slab
    - Tooled joints a depth of 1/4 the thickness of the slab
  - Install construction or control joints in slabs on grade at a spacing not to exceed .75 times the slab thickness in any direction for reinforced slabs, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction.
  - In exposed areas, install construction or control joints in concrete over metal deck at a spacing not to exceed 10 feet o/c. Coordinate location with architectural drawings.
- Construction
  - Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
  - Concrete to be mechanically consolidated during placement per ACI standards.
  - Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
  - All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
  - No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
  - Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
- Detailing:
  - Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" on sheet S-601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
  - At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
  - At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
  - Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
  - All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
  - Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
  - See detail B2/S-501 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

EPOXY

- Epoxy shall be "HIT RE 500" by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Econ Injection System" by Ramset/Redhead, "Power-Fast" by Rawl, or approved equal.
- All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed.
- After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
- Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

- Material:
  - Other shapes & Plates ASTM A36
  - Deformed Bar Anchors (DBA) ASTM A496
  - Bolted Connections: ASTM A325
- Fabrication and construction shall comply with the latest edition of the following Codes and Standards.
  - American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary",
  - AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
  - AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
  - American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
  - AISC "Seismic Provision for Structural Steel Buildings"
- Welding
  - All welding and cutting shall be performed by AWS certified welders.
  - Use E-70 XX or as noted otherwise.
  - All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
  - Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
  - Do not weld anchor bolts, including "lack" welds.
  - Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
- Bolted Connections:
  - Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition.
  - Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
  - Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
  - Bolts, nuts and washers shall not be reused.

METAL DECKING

- Steel deck shall comply with the latest requirements of the Steel Deck Institute.
- All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the deck under a three span condition.
- All deck supporting members shall be dry before welding.
- Crimp seams before button punching or welding interlocking seams.
- Where deck is to receive sprayed-on fire proofing, painted deck shall be coated with special paint that will allow the sprayed-on fire proofing to adhere to the painted deck.

- Steel Floor Deck
- Steel floor deck shall be 9/16" deep X 26 gauge minimum galvanized Non-Composite Formlock deck with interlocking side seams and #10 screws at 8" o.c. with the following properties:

26 Gauge

Minimum S (in<sup>3</sup>/ft) = 0.013

Minimum I (in<sup>4</sup>/ft) = 0.042
  - Steel deck with 3" thick (overall thickness) normal weight concrete slab shall have a minimum diaphragm shear capacity of 450 lbs/ft. for a 1 deck span.
  - Deck Attachment:
    - Frame Fastening: #12 STS @ 35/5 Pattern.
    - Stitch Fastening: (1) # 10 STS per plan.
  - Attach interlocking seams with 3/16" Ø button punch at 18" o.c., with 1 1/2" top seam weld at 36" o.c. or with Vercor PunchLok System at 36" o.c. or with ASC DeltaGrip Sysitem at 36" o/c. Closer spacings may be used to develop minimum shear requirements.
  - Provide a 2-inch minimum bearing at supports.

COLD-FORMED STEEL

- All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI).
- Light Gauge Steel Framing:
  - Galvanized steel must meet the minimum requirements of ASTM A446 Grade D (Fy = 50 ksi) for 12, 14 and 16-gauge and ASTM A446 Grade A (Fy = 33 ksi) for 18-gauge and lighter. Galvanized coatings must meet the ASTM A525 specification.
  - Follow all manufacturers' recommendations for the use of these products.
  - Unless noted otherwise, all welded connections shall be done according to AWS standards.
  - All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The k1/r ratio of the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o/c. Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used.
- Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Shop Drawings shall bear the stamp of a Professional Engineer registered in the State of Utah.

PREFABRICATED METAL BUILDING

- The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
- Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop drawings.
- Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect and Engineer.
- The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and lateral systems.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent to the engineer for review. Items requiring special inspection and quality assurance are:

- Concrete placement (IBC Section 1704.4)
  - Continuous special inspection shall be provided
  - See specifications for concrete testing requirements.
  - Cylinders, slump and air-entrainment shall be done for every 50 cubic yards or each day's production if less than 50 cubic yards
- Bolts installed in concrete (IBC Section 1704.4)
  - All bolts shall be inspected prior to and during concrete placement.
- Concrete reinforcing steel placement (IBC Section 1704.4)
  - Reinforcing shall be inspected prior to concrete placement.
- Structural welding, including steel deck (IBC 1704.3)
  - Periodic special inspection of metal floor and roof decks
  - Periodic special inspection of single pass fillet welds less than or equal to 5/16"
  - Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
- Continuous special inspection of complete and partial penetration welds.
- High Strength bolted connections (IBC Section 1704.3.3)
  - Periodic special inspection of bearing type connections.
  - Continuous special inspection of slip critical connections. Special inspector shall be present to observe the pre-installation testing and calibration procedures.
- Epoxy Anchors (IBC Section 1704.13)
  - Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

- Prefabricated Metal Building

LEGEND OF MARKS AND ABBREVIATIONS

AB	ANCHOR BOLT(S)	JST	JOIST
ABV	ABOVE		
ALT	ALTERNATE	K	KIP(S) = 1000 POUNDS
APPROX	APPROXIMATE	KLF	KIPS PER LINEAL FOOT
ARCH	ARCHITECT (URAL)	KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING	LBS	POUNDS
BLW	BELOW	LF	LINEAL FOOT
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOT	BOTTOM	LLV	LONG LEG VERTICAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN		
		MAX	MAXIMUM
CC	CENTER-TO-CENTER	MECH	MECHANICAL
C.J.	CONST/CONTROL JOINT	MFR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MSC	MISCELLANEOUS
CONST	CONSTRUCTION		
CTR	CENTER	NIC	NOT IN CONTRACT
CW-X	CONCRETE WALL	NTS	NOT TO SCALE
		O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	O.F.	OUTSIDE FACE
DBE	DECK BEARING ELEVATION	OPNG	OPENING
DBL	DOUBLE	OPP	OPPOSITE
DET	DETAIL		
DIA	DIAMETER	PCF	POUNDS PER CUBIC FOOT
DIM	DIMENSION	PL	PLATE
DN	DOWN	PLF	POUNDS PER LINEAL FOOT
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
DWL	DOWEL	PSI	POUNDS PER SQUARE INCH
		PT	POINT
EA	EACH		
E.F.	EACH FACE	REINF	REINFORCING
ELEC	ELECTRICAL	REOD	REQUIRED
ELEV	ELEVATION		
EQUIP	EQUIPMENT		
EQ	EQUAL		
E.W.	EACH WAY	SHT	SHEET
EXT	EXISTING	SI	SPECIAL INSPECTION
EXP	EXPANSION	SM	SLAB
EXTR	EXTERIOR	SOG	SLAB-ON-GRADE
		SQ	SQUARE
FC-X	CONTINUOUS FOOTING MARK	STAG	STAGGERED
F.D.	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
F.F.	FINISHED FLOOR	STR	STRUCTURAL
FS-X	SQUARE FOOTING MARK	STS	SELF TAPPING SCREWS
FTG	FOOTING		
FTS-X	THICKEN SLAB MARK	T&B	TOP AND BOTTOM
		TEMP	TEMPERATURE
GA	GAUGE	THDS	THREADS
GALV	GALVANIZED	T.O.	TOP OF
GENL	GENERAL STRUCTURAL NOTES	TOC	TOP OF CONCRETE
		TOD	TOP OF DECK
		TOP	TOP-OF-FOOTING
		TOW	TOP OF WALL
HT	HORIZONTAL	TYP	TYPICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE		
I.F.	INSIDE FACE	VERT	VERTICAL
IN	INCH		
INT	INTERIOR	W/	WITH
		WWF	WELDED WIRE FABRIC
JT	JOINT	WWM	WELDED WIRE MESH

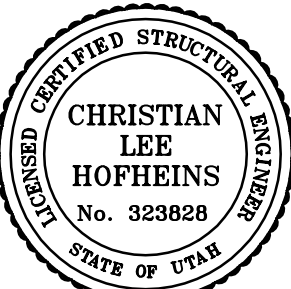
CLIENT

MEADOW  
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STATION #4534  
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MEADOW, UTAH 84644

DESIGNER



CONSULTANTS



REGISTRATION

ISSUE

MARK	DATE	DESCRIPTION
	09/02/05	BID DOCUMENTS
	08/12/05	FINAL REVIEW SET
	07/18/05	PRELIMINARY REVIEW SET

PROJECT NO:	05123
DRAWN BY:	J. MILLER
CHECKED BY:	C. HOFHEINS
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

KEY PLAN

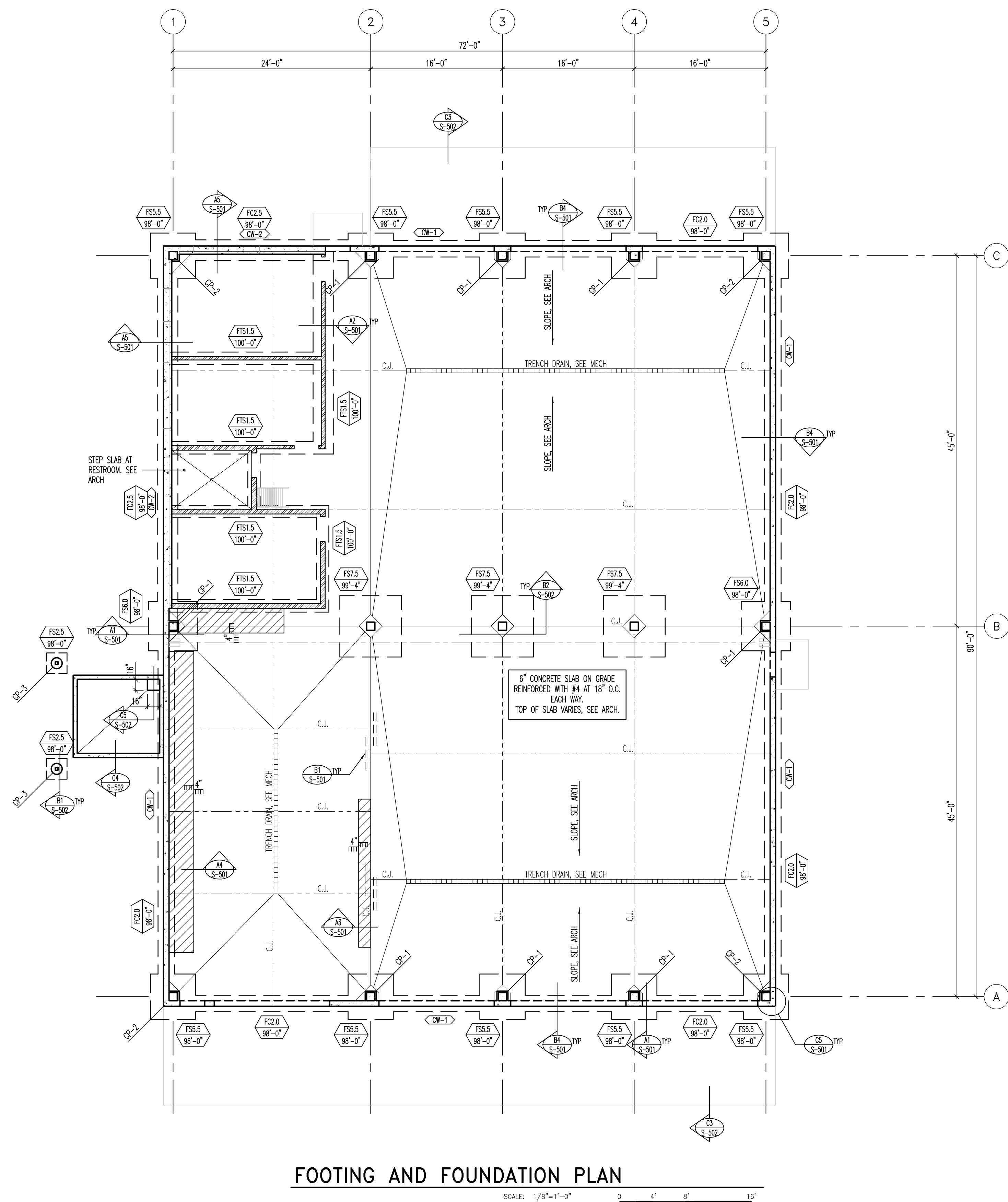
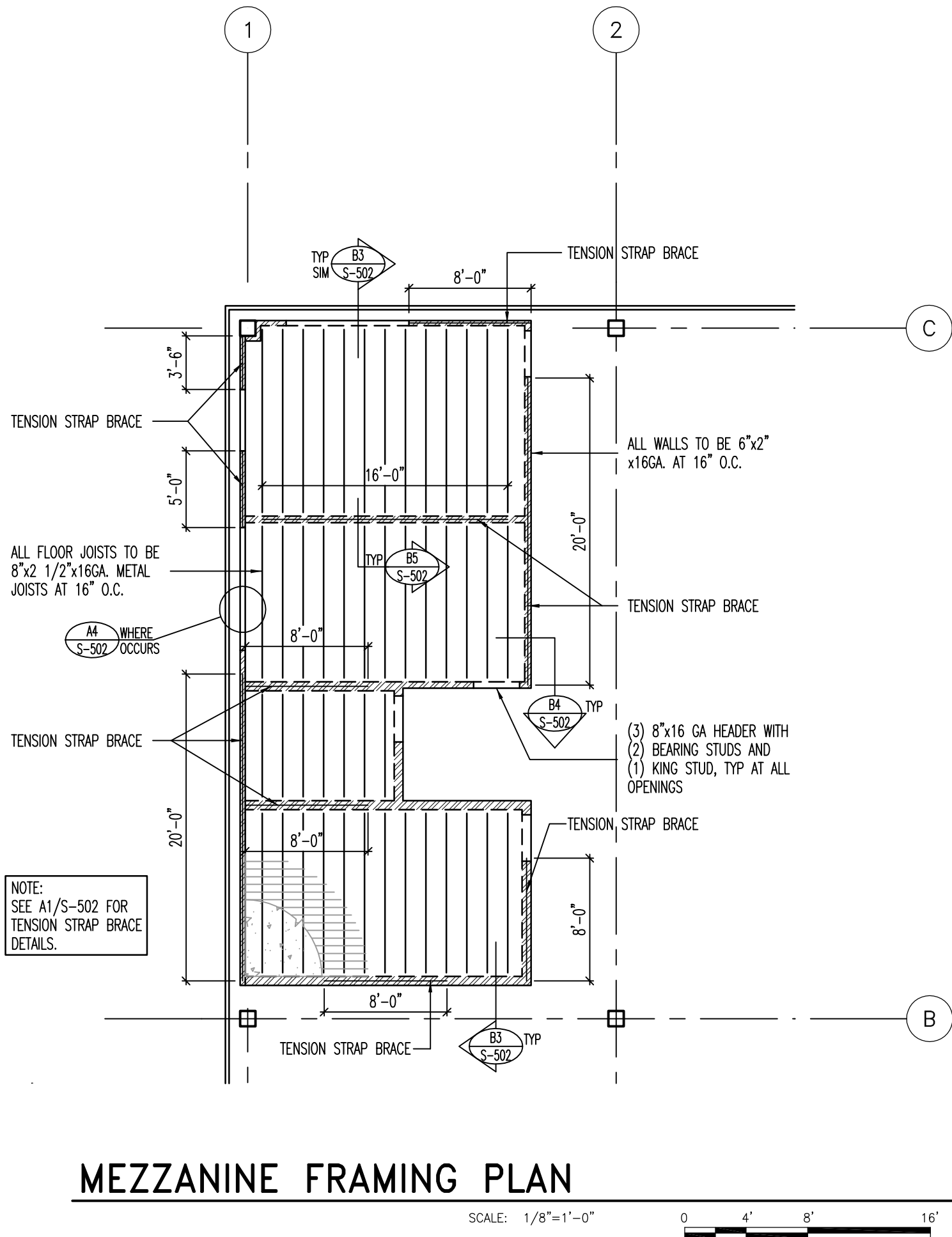
SHEET TITLE

GENERAL  
STRUCTURAL  
NOTES

S-001

D  
C  
B  
A

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MARKS AND SYMBOLS LEGEND	
	SECTION MARK SHEET NUMBER
	FOOTING DESIGNATION TOP OF FOOTING ELEVATION
	INDICATES CONCRETE WALL
	DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL B4/S-501 AND C3/S-502.
	INDICATES CONCRETE OVER METAL FLOOR DECK. SEE GENERAL STRUCTURAL NOTES ON SHEET S-001.
	INDICATES 4" THICK CONCRETE HOUSE-KEEPING PAD. REINF WITH #4 BARS AT 12" O.C. EACH WAY
	INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S-601.
	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S-601.
	INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S-601.
	INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET S-601.
	INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C4/S-501 AND C5/S-501.

- FOOTING AND FOUNDATION PLAN NOTES**
- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
  - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
  - SEE DETAILS C1/S-501 AND C2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
  - SEE DETAIL C3/S-501 AND C4/S-501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.
  - SEE DETAIL B1/S-501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
  - SEE DETAIL B2/S-501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
  - SEE DETAIL A3/S-501 AND A4/S-501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
  - FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

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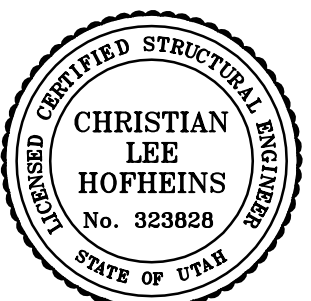
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PROJECT NO:	05123
DRAWN BY:	J. MILLER
CHECKED BY:	C. HOFSEINS
SCALE:	AS SHOWN
DATE:	SEPTEMBER 2, 2005

KEY PLAN

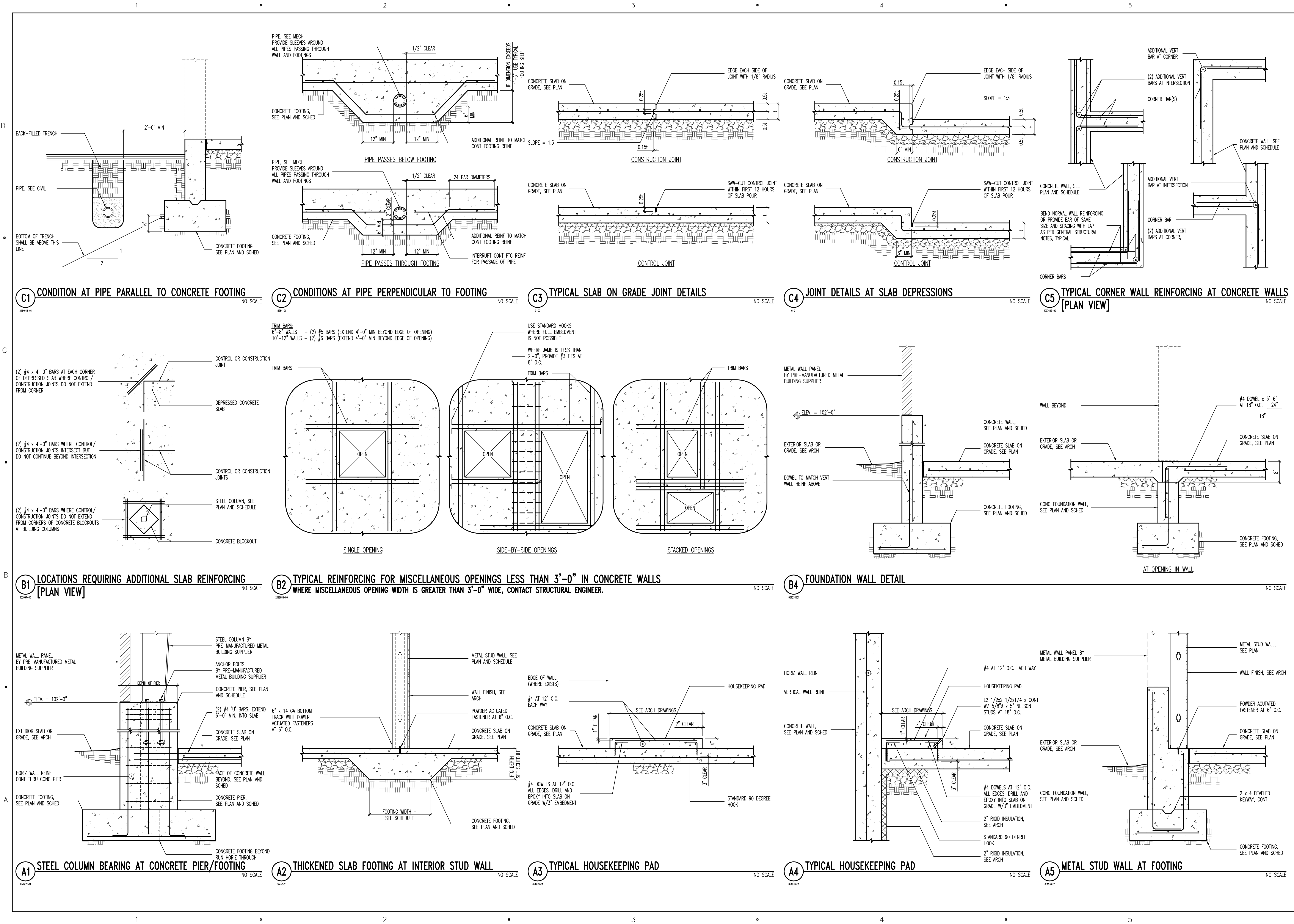
SHEET TITLE

FOOTING  
AND  
FOUNDATION  
PLAN

S-101

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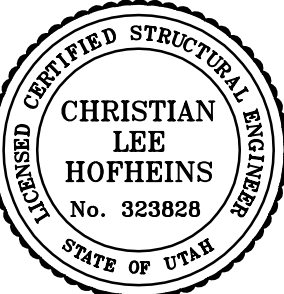
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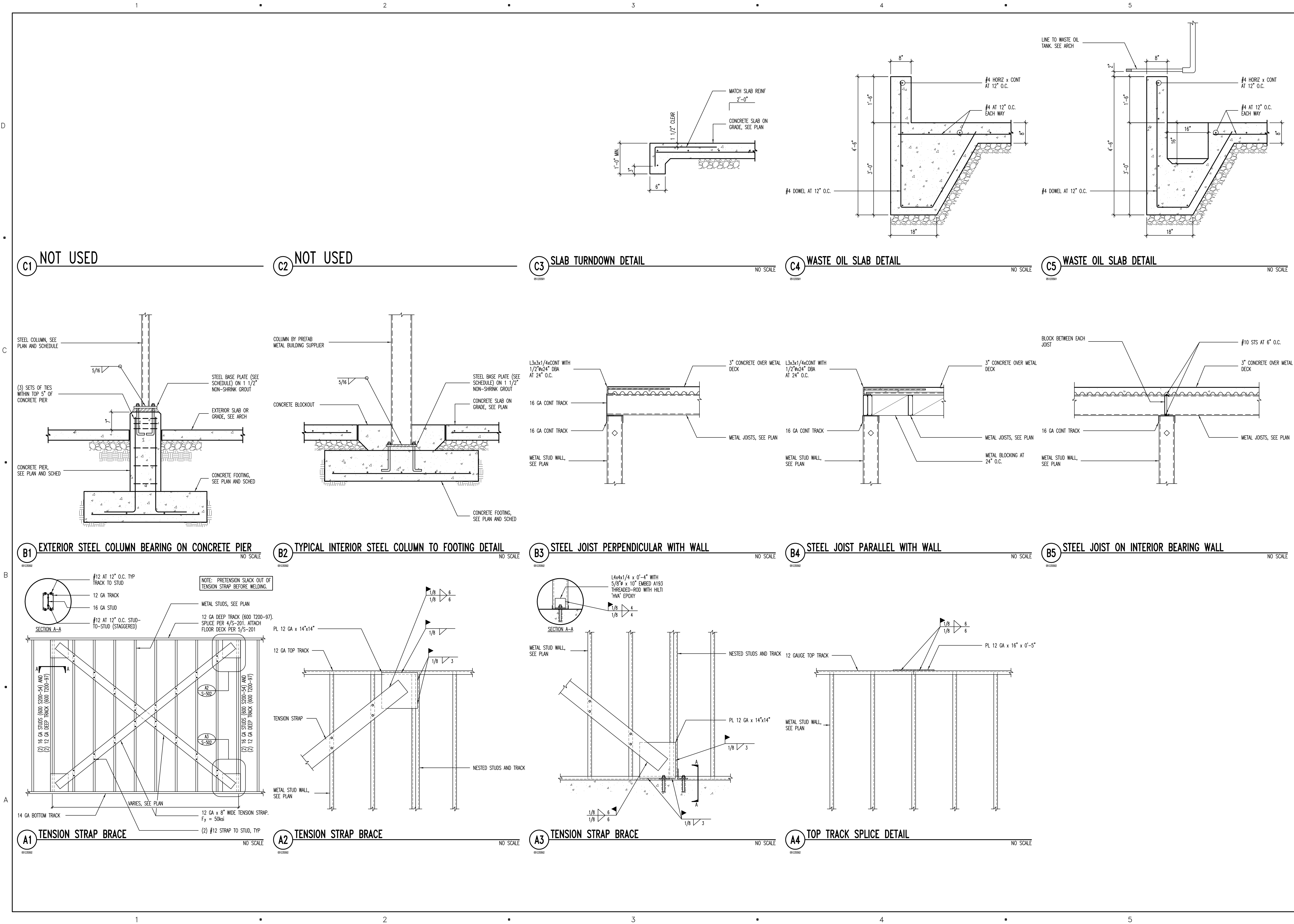
SHEET TITLE

FOOTING  
AND  
FOUNDATION  
DETAILS

S-501

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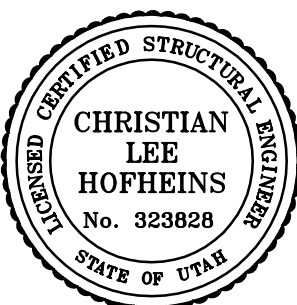
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PROJECT NO: 05123  
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CHECKED BY: C. HOFHEINS  
SCALE: AS SHOWN  
DATE: SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

FOOTING  
AND  
FOUNDATION  
DETAILS

S-502

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CONCRETE FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS1.5	1'-6"	CONT	12"	-	-	-	-	2	#4	CONT	EQ	THICKENED SLAB
FC2.0	2'-0"	CONT	12"	-	-	-	-	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	-	#5	2'-0"	14"	3	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	#5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

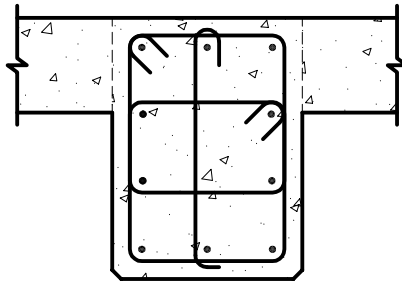
- CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
  2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
  3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
  4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C1 CONCRETE FOOTING SCHEDULE

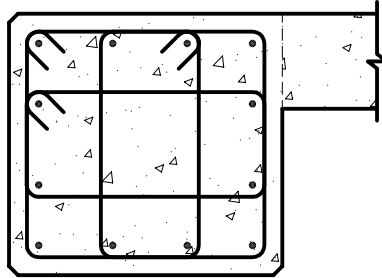
NO SCALE

CONCRETE PIER SCHEDULE					
MARK	PIER SIZE	REINFORCING		TYPE	COMMENTS
		VERTICAL	TIES		
CP-1	16" x 22"	(10) #5	(3) #3 AT 8" O.C.	A	POUR PIERS MONOLITHIC
CP-2	23" x 22"	(2) #5	(3) #3 AT 8" O.C.	B	WITH CONCRETE FOUNDATION WALL
CP-3	16" 9	(4) #5	#3 AT 8" O.C.	C	

- CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO).
  2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
  3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



TYPE "A"



TYPE "B"



TYPE "C"

C2 CONCRETE PIER SCHEDULE

NO SCALE

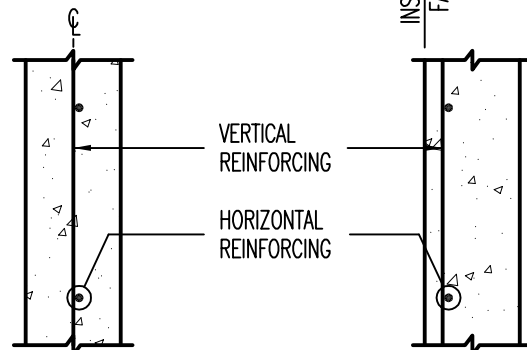
CONCRETE WALL SCHEDULE					
MARK	THICKNESS	REINFORCING			COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM	
CW-1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A
CW-2	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	C

- CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

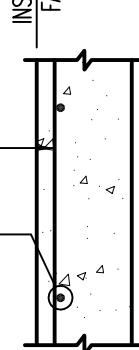
ABBREVIATIONS:  
E.F. EACH FACE  
I.F. INSIDE FACE  
O.F. OUTSIDE FACE

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

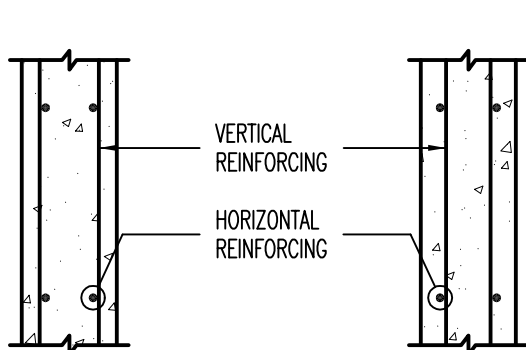
WALL REINFORCING PLACEMENT TYPES:



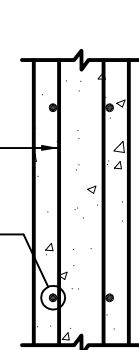
TYPE "A"



TYPE "B"



TYPE "C"



TYPE "D"

A1 CONCRETE WALL SCHEDULE

NO SCALE

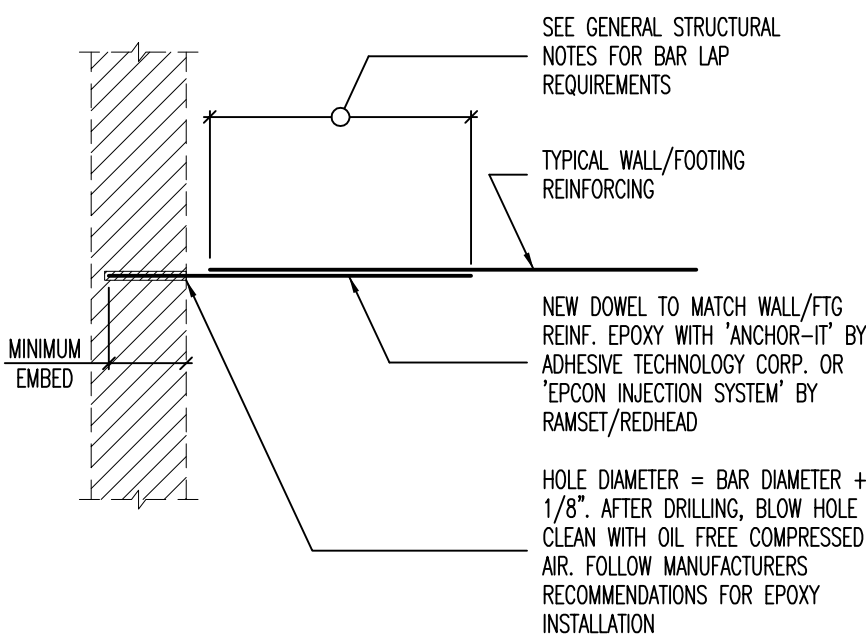
CONCRETE REINFORCING BAR LAP SPICE SCHEDULE																
BAR SIZE	f'c = 3000psi				f'c = 4000psi				f'c = 5000psi				f'c = 6000psi			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

- CONCRETE REINFORCING BAR LAP SPlice NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  2. CLASS 'A' SPICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPICED WITHIN THE LAP SPlice LENGTH.
  3. CLASS 'B' SPICES SHALL BE USED FOR ALL SPICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
  4. TIES AND STIRRUPS SHALL NOT BE SPICED.
  5. SPICES FOR BUNDLED BARS:
    - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPlice LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPlice LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - c. INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    - d. ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
  6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
  7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
  8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A2 CONCRETE REINFORCING BAR LAP SPlice SCHEDULE

NO SCALE

EPOXY DOWEL EMBED SCHEDULE	
DOWEL SIZE	MINIMUM EMBEDMENT INTO EXISTING CONCRETE
#4	6 1/2"
#5	7 1/2"
#6	10"
#7	1'-1"
#8	1'-4"



C4 EPOXY DOWEL EMBED SCHEDULE

NO SCALE

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DESIGNER

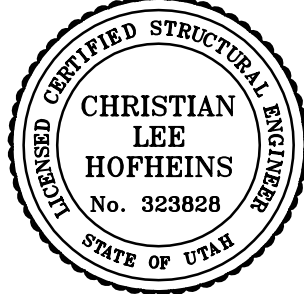
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REGISTRATION

ISSUE

	09/02/05	BID DOCUMENTS
	08/12/05	FINAL REVIEW SET
	07/18/05	PRELIMINARY REVIEW SET

MARK	DATE	DESCRIPTION
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PROJECT NO: 05123  
DRAWN BY: J. MILLER  
CHECKED BY: C. HOFSEINS  
SCALE: AS SHOWN  
DATE: SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

STRUCTURAL  
SCHEDULES

S-601

MECHANICAL LEGEND (NOT ALL USED)	
RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
SPIN-IN FITTING W/MVD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER	
THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	
KEYED NOTE	
SECTION CUT LINE	
CONTROL TRANSFORMER	

GENERAL NOTES:

- ① COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- ② ALL DUCTWORK SHALL RECEIVE 1" - 1.5 LBS./CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1/2" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
- ③ ALL DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
- ④ DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- ⑤ THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- ⑥ THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
- ⑦ THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
- ⑧ ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- ⑨ THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ⑩ ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- ⑪ DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- ⑫ FIRE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL FIRE PROTECTION SYSTEM PER REFLECTED CEILING PLAN AND THE CURRENT ADOPTED EDITION OF NFPA AND BUILDING CODE.
- ⑬ EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- ⑭ HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- ⑮ ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
- ⑯ DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

AIR DEVICE SCHEDULE										GRILLE NUMBER	GRILLE CFM
PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS	
1	4-WAY SUPPLY	6"ø	SEE PLANS	20	0.05	176	IN DUCT	WHITE	PRICE #SCDA	① ③ ④	
2	4-WAY SUPPLY	8"ø	SEE PLANS	20	0.05	280	IN DUCT	WHITE	PRICE #SCDA	② ③ ④	
3	4-WAY SUPPLY	10"ø	SEE PLANS	21	0.05	436	IN DUCT	WHITE	PRICE #SCDA	② ③ ④	
4	RETURN	12" X 12"	SEE PLANS	15	0.06	630	OBD	WHITE	PRICE #800		
5	TRANSFER GRILLE	12" X 12"	SEE PLANS	15	0.06	N.A.	N.A.	WHITE	PRICE #800		

① 12" X 12" FACE MODULE    ② 24" X 24" FACE MODULE    ③ 3 CONCENTRIC CONES    ④ SET FOR HORIZONTAL DISCHARGE

EXHAUST FAN SCHEDULE													
SYMBOL	NO. REQ'D	LOCATION	CFM	TOTAL SP	LB'S	SONES	ROOF OR WALL OPENING	MOTOR				COMMENTS	
								HP	ø	CYCLES	VOLTS		RPM
EF-1	AS SHOWN	RESTROOM	120	0.15	22	1.7	8/10	50 WATTS	1	60	120	1200	COOK #GC-240 ④ ⑤ ⑥
EF-2	AS SHOWN	VEHICLE SVC BAY	8720	0.25"	440	7.0	43.5" SQ.	3/4	1	60	208	301	COOK ACE-D #180C11D ① ② ③

① PROVIDE INSULATED HOUSING AROUND MOTOR    ② CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH    ③ INNER LOCK LOUVER MOTOR WITH FAN MOTOR    ④ CEILING GRILLE    ⑤ COOK WCA-2 WALL CAP AND DAMPER    ⑥ CONTROL WITH MOTION DETECTOR

CONDENSING UNIT SCHEDULE [CU-]										
CODE	MFR. & MODEL NO.	SEN. MBH	AMB. TEMP.	SEER	SUCTION TEMP.	FLA	MCA	MOP	VOLTAGE/ PHASE	REMARKS
CU-1	TRANE #2TTB2042A100	31	95	12	45	18.8	23	40	208/1	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① PROVIDE WITH FUSED DISCONNECT    ② CONNECT TO EVAPORATOR COIL IN F-1    ③ ANTI-SHORT CYCLE    ④ CONVENIENCE OUTLET    ⑤ PROGRAMMABLE THERMOSTAT    ⑥ HIGH/LOW PRESSURE SWITCH    ⑦ FACTORY INSTALLED ACCUMULATOR    ⑧ NOMINAL 3.5 TON UNIT    ⑨ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

FURNACE SCHEDULE													
SYMBOL	INPUT BTU	OUTPUT BTU ②	CFM	EXT S.P.	FAN SPEED	FILTER		MOTOR				MANUFACTURER AND MODEL NO.	COMMENTS
						NO.	SIZE	HP	Ø	CYCLES	VOLT		
F-1	100,000	93,000	1400	0.5	1100 RPM	1	24"x25"x1"	3/4	60	1	115	DIRECT	TRANE #TUX100C960D ①③④⑤⑥⑦

① AFUE - 93    ② AT ELEVATION    ③ R-22    ④ PROVIDE W/TXCO50C4HPD EVAPORATOR    ⑤ PROPANE GAS KIT    ⑥ CONCENTRIC VENT KIT    ⑦ CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

GAS-FIRED RADIANT HEATERS											
SYMBOL	LOCATION	INPUT BTU	WEIGHT	CONFIG	MOTOR				FLUE SIZE	MAKE AND MODEL NUMBER	COMMENTS
					AMPS	VOLTS	Ø	CYCLES			
B-1	AS SHOWN	120,000	35	SEE PLANS	1.0 RUN	120	1	60	4"ø	ROBERTS GORDON CO-RAY-VAC #B-12	① ② ③ ④

① ROBERTS GORDON #EP-200 VACUUM PUMP, 3/4HP, 120 VOLT    ② PROVIDE FRESH AIR INTAKE    ③ 7-DAY PROGRAMMABLE THERMOSTAT    ④ HEAT TREATED ALUMIZED STEEL TUBE STAINLESS STEEL REFLECTOR

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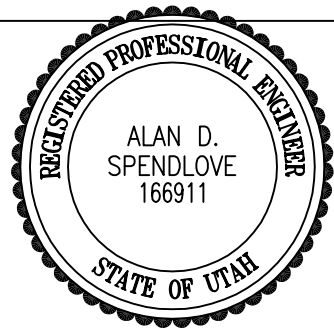
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PROJECT NO: 050008.01  
DRAWN BY: M.M.  
CHECKED BY: A.D.S.  
SCALE:  
DATE: SEPTEMBER 2, 2005  
KEY PLAN

SHEET TITLE

MECHANICAL  
SCHEDULE SHEET

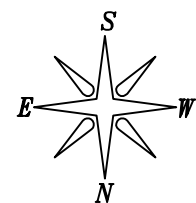
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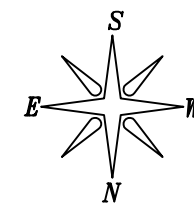
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2 MEZZANINE FLOOR PLAN  
SCALE: 1/8" = 1' - 0" 6' 0' 4' 8' 12' 16'



1 MECHANICAL FLOOR PLAN  
SCALE: 1/8" = 1' - 0" 6' 0' 4' 8' 12' 16'



PVE Project No: 04080.02

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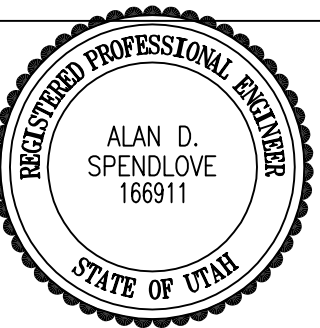
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KEY PLAN

SHEET TITLE

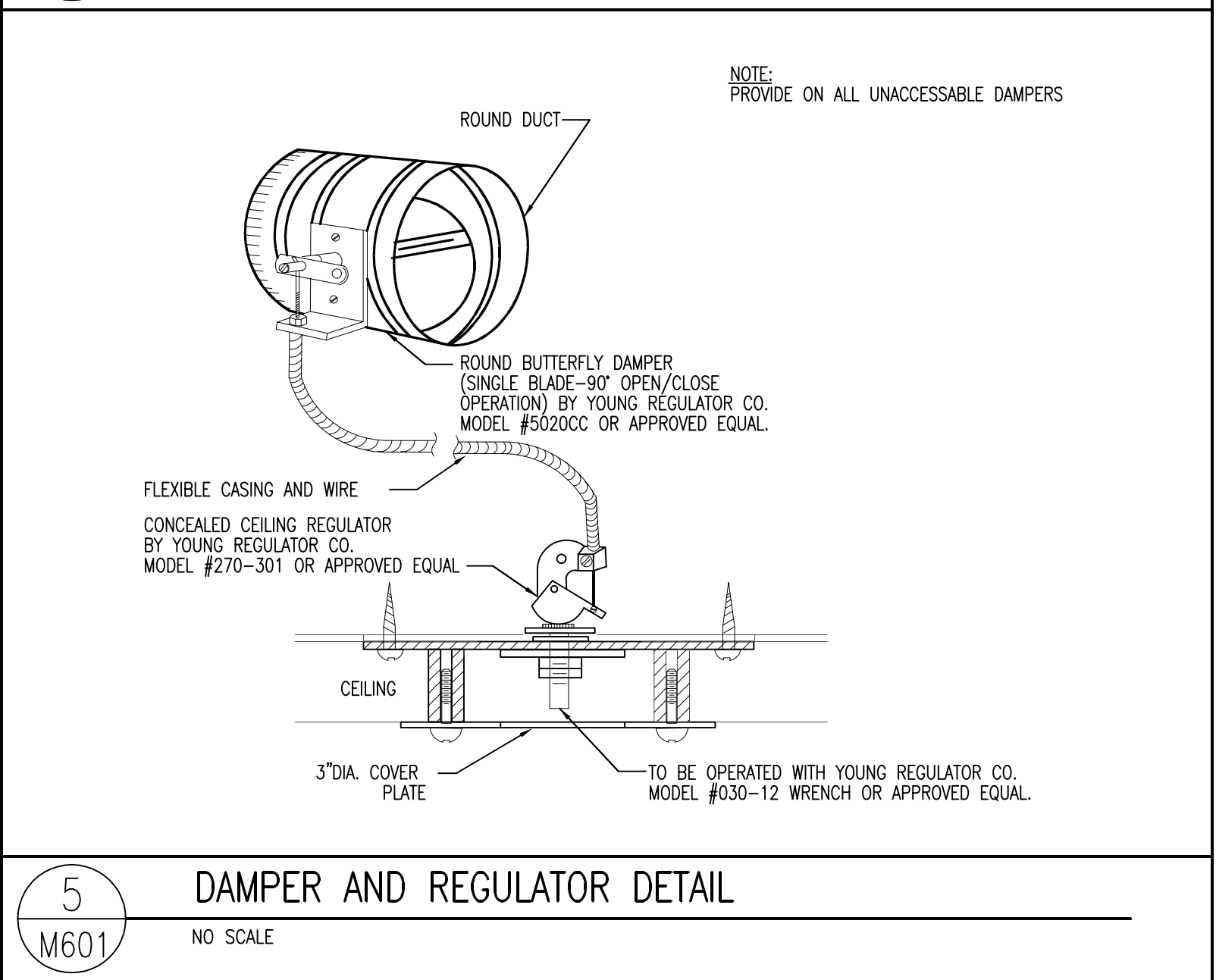
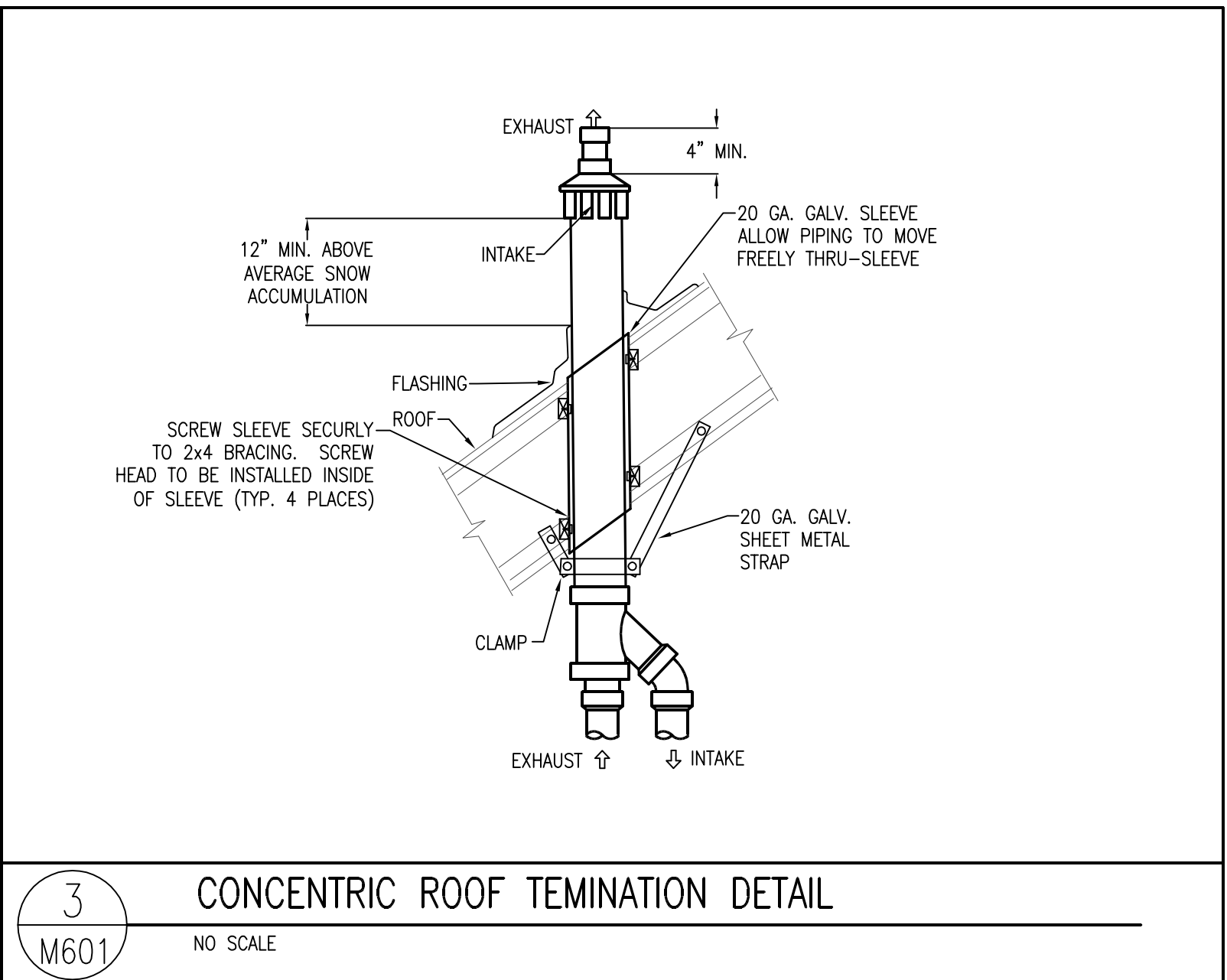
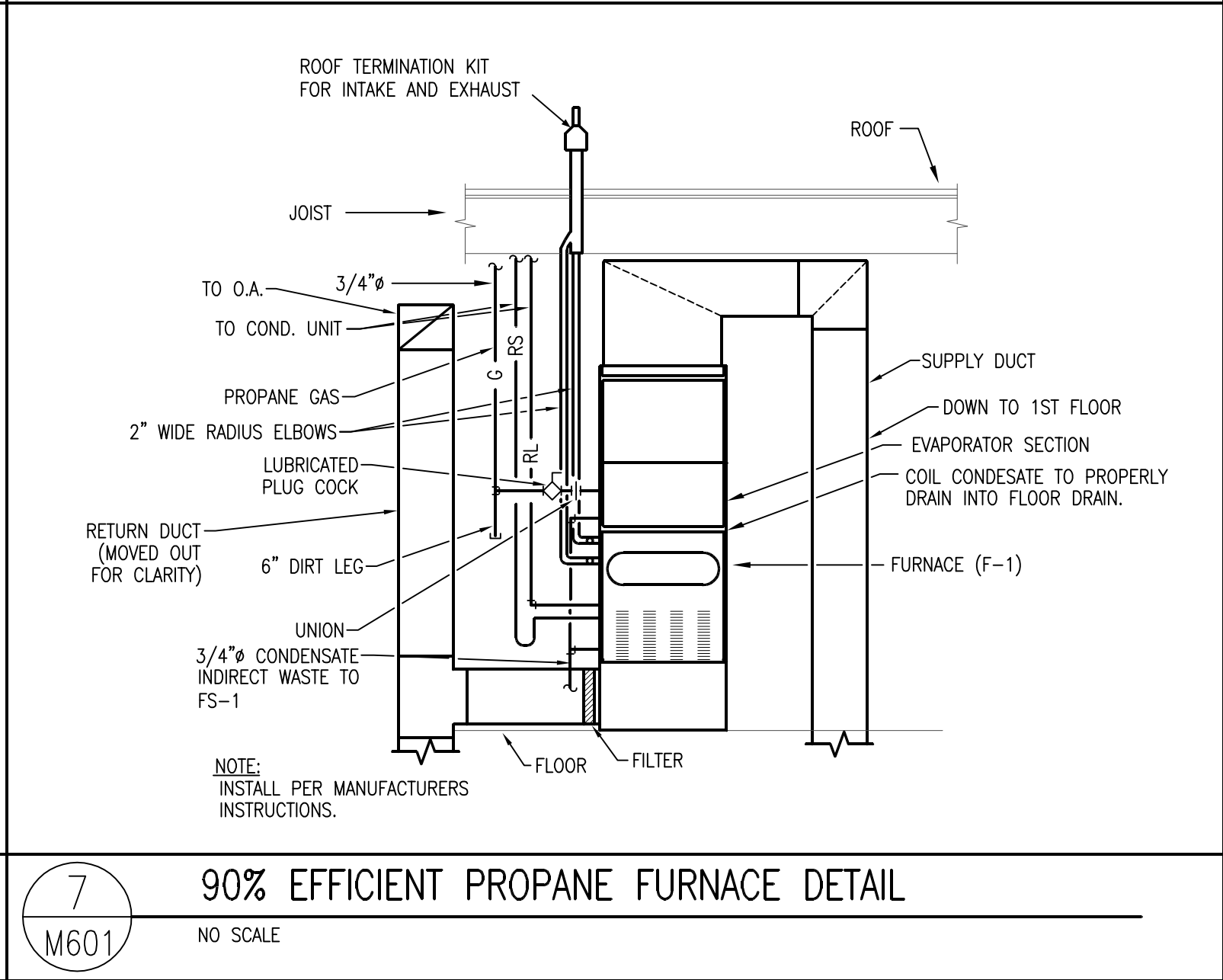
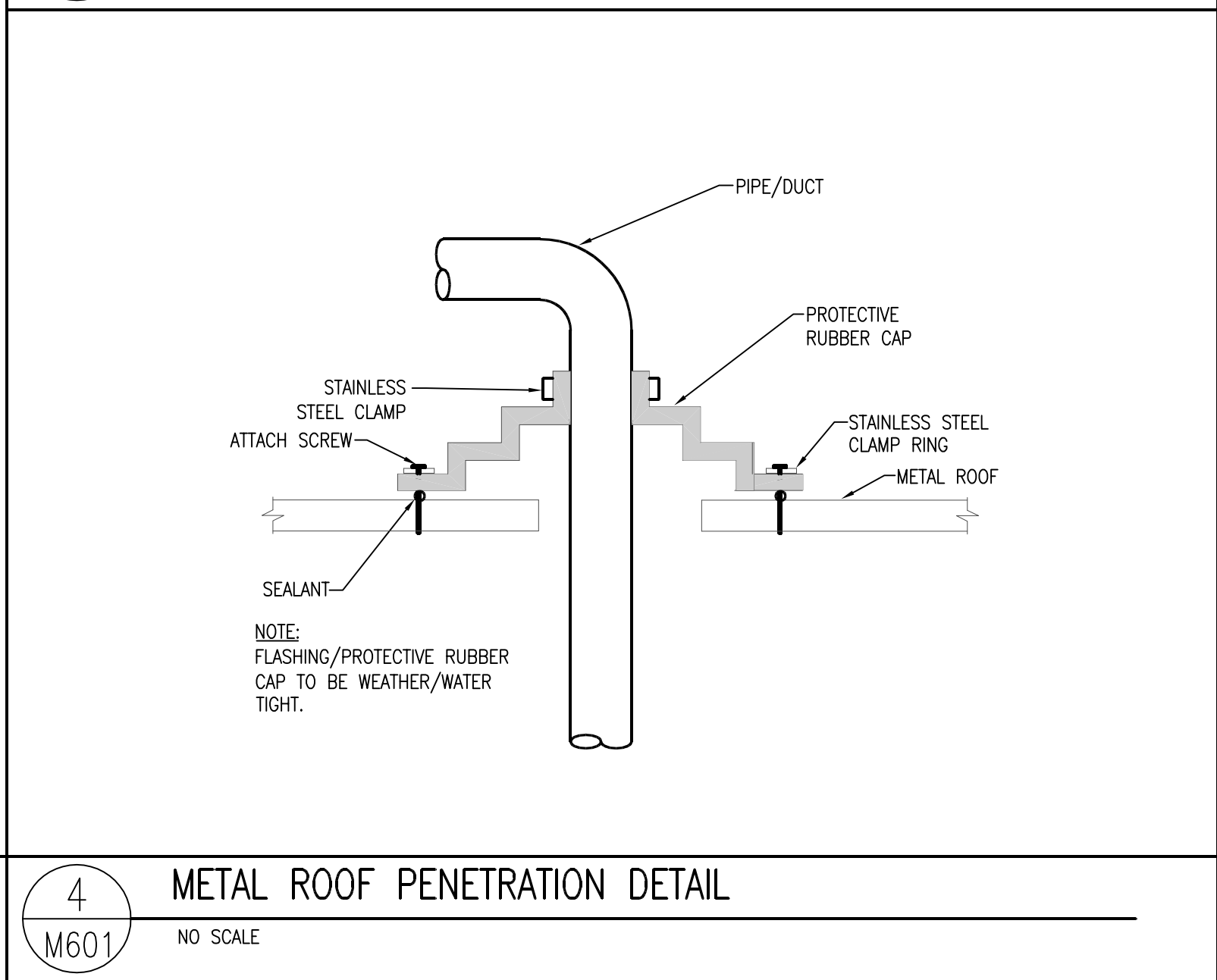
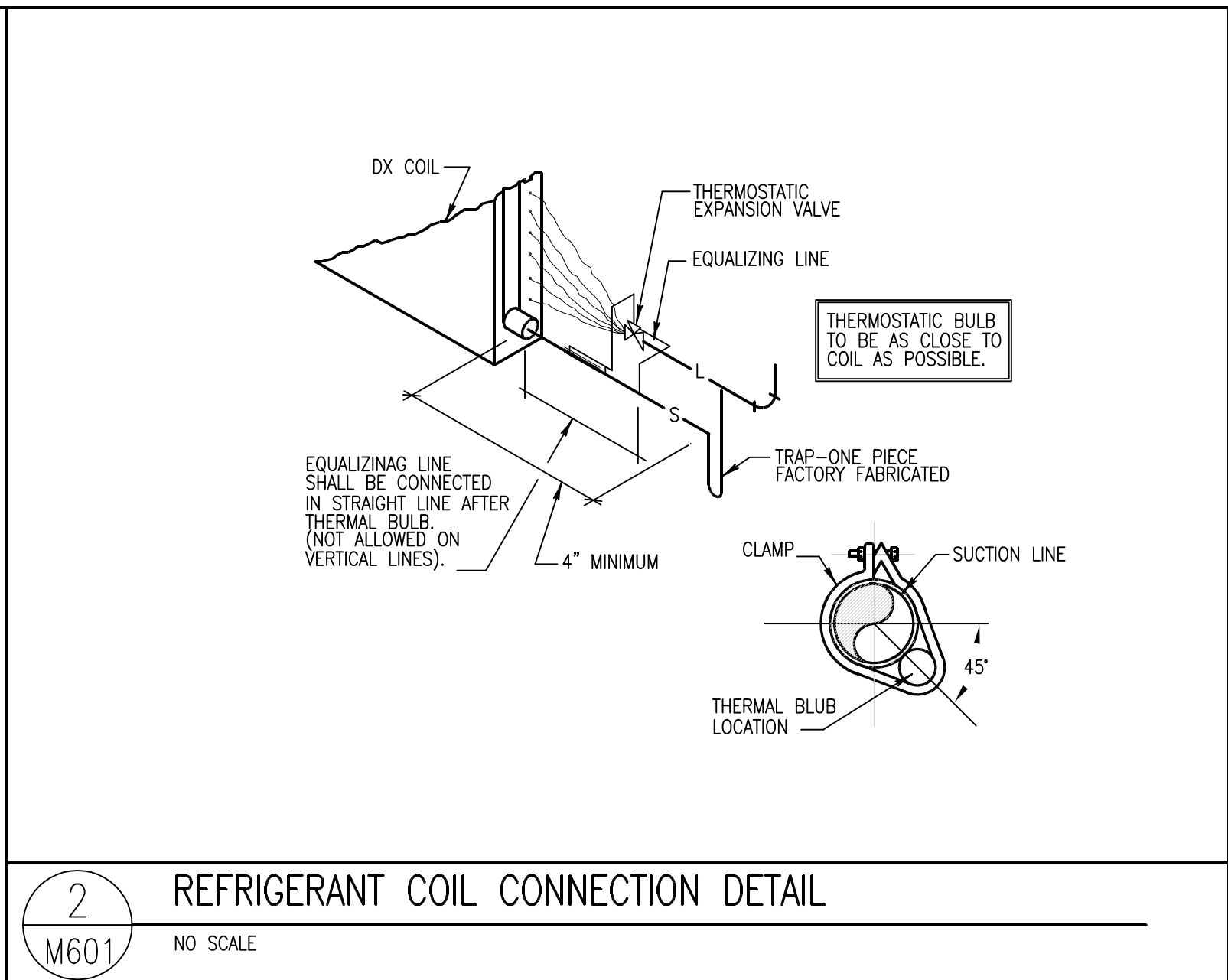
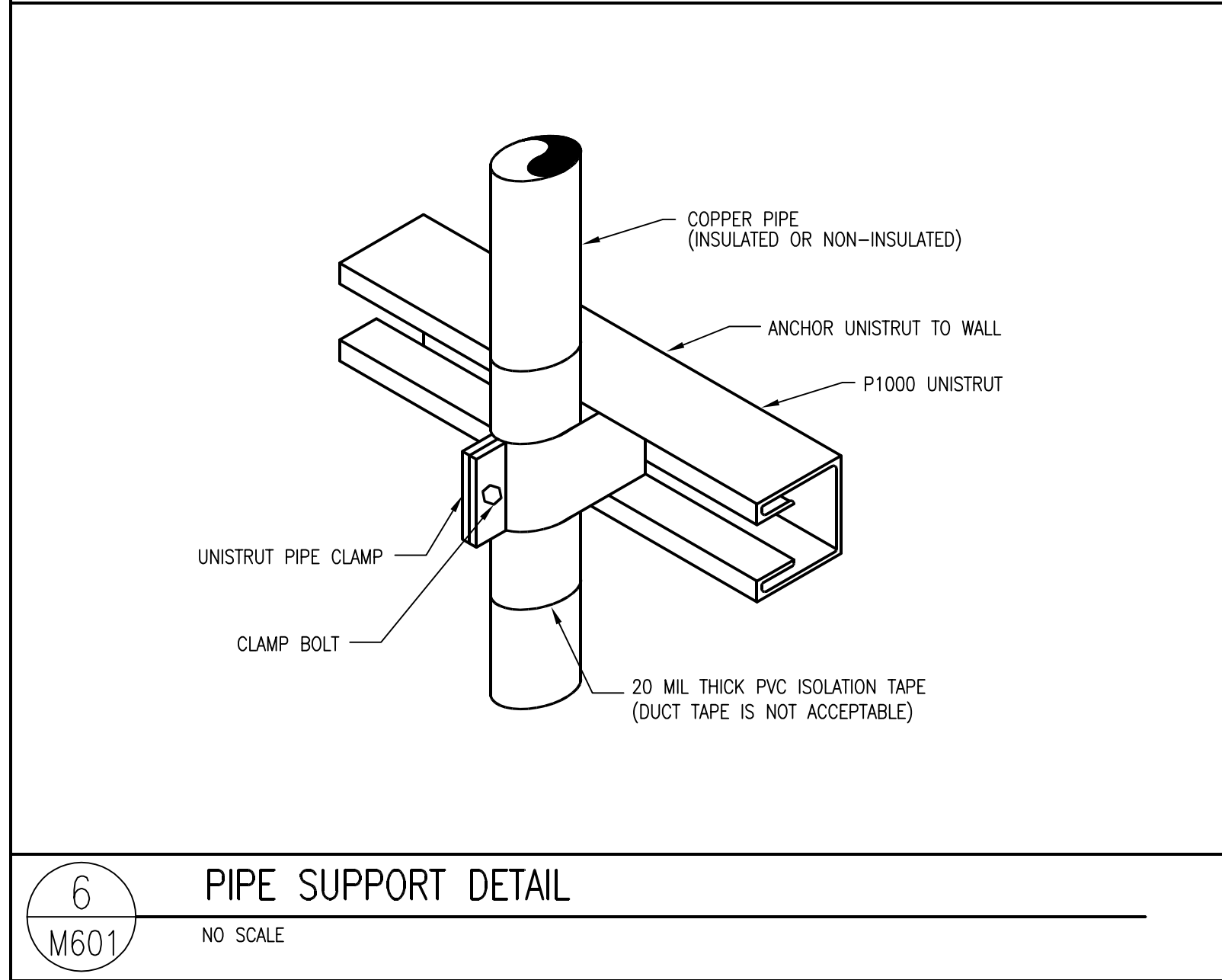
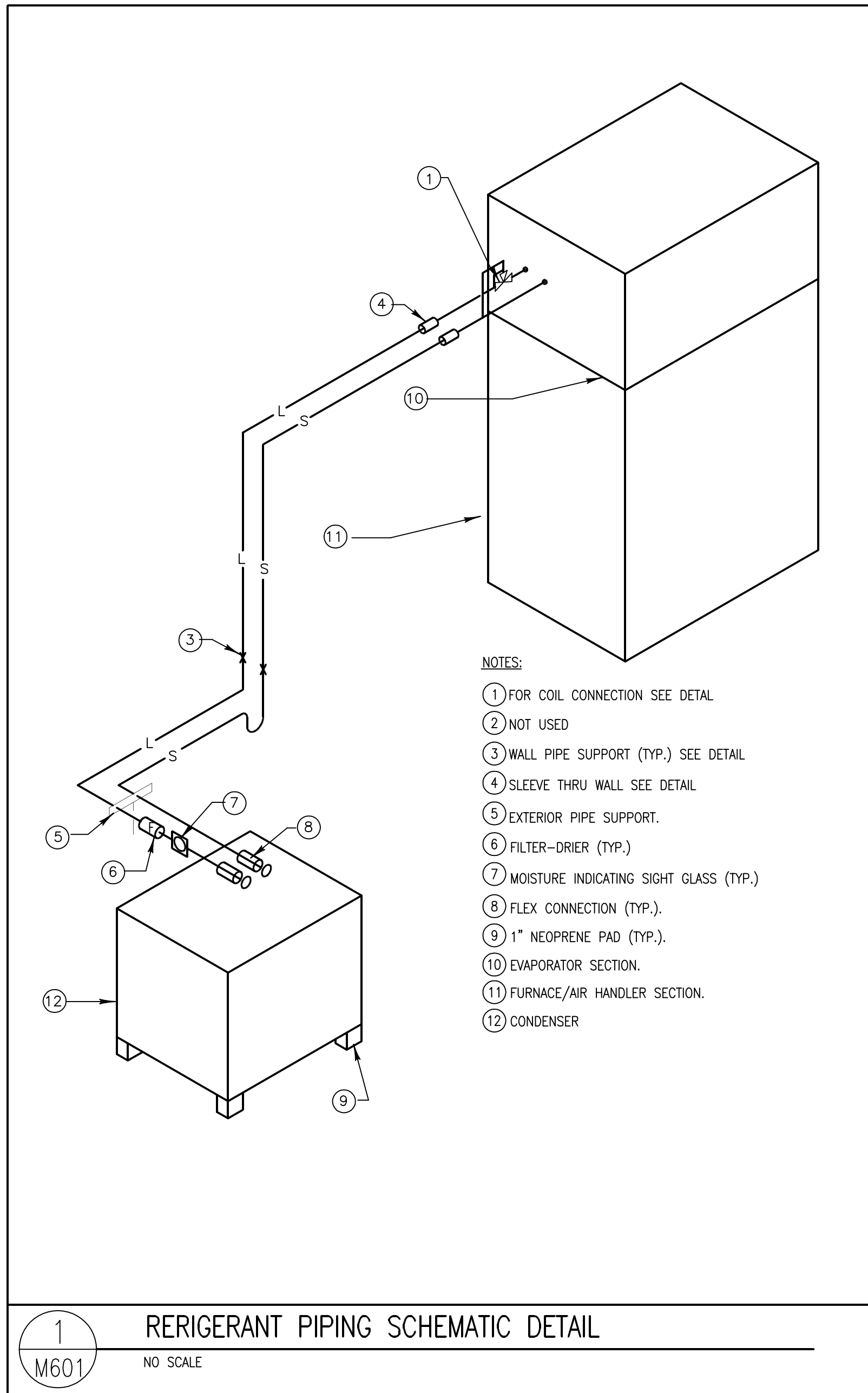
MECHANICAL  
FLOOR PLAN

M201

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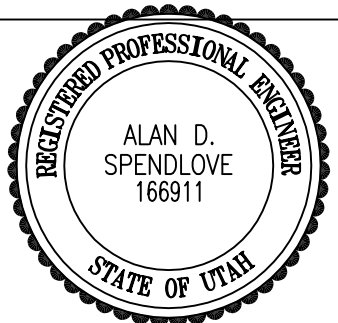
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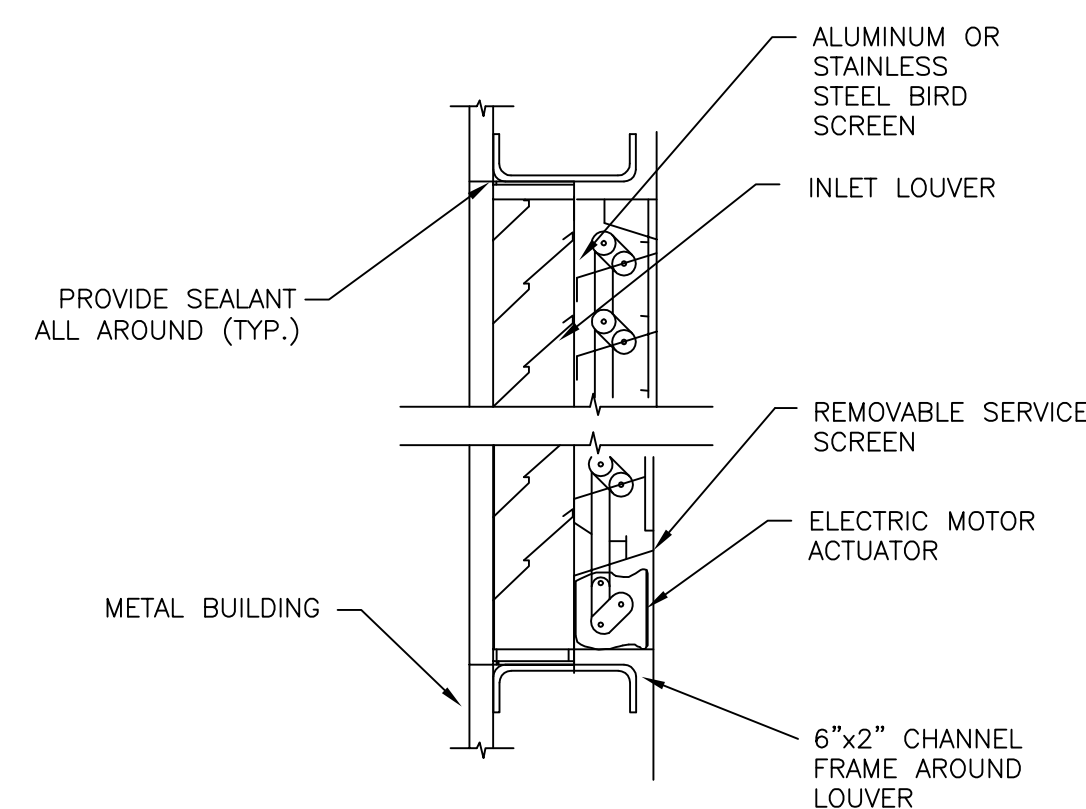
PROJECT NO:	050008.01
DRAWN BY:	M.M.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

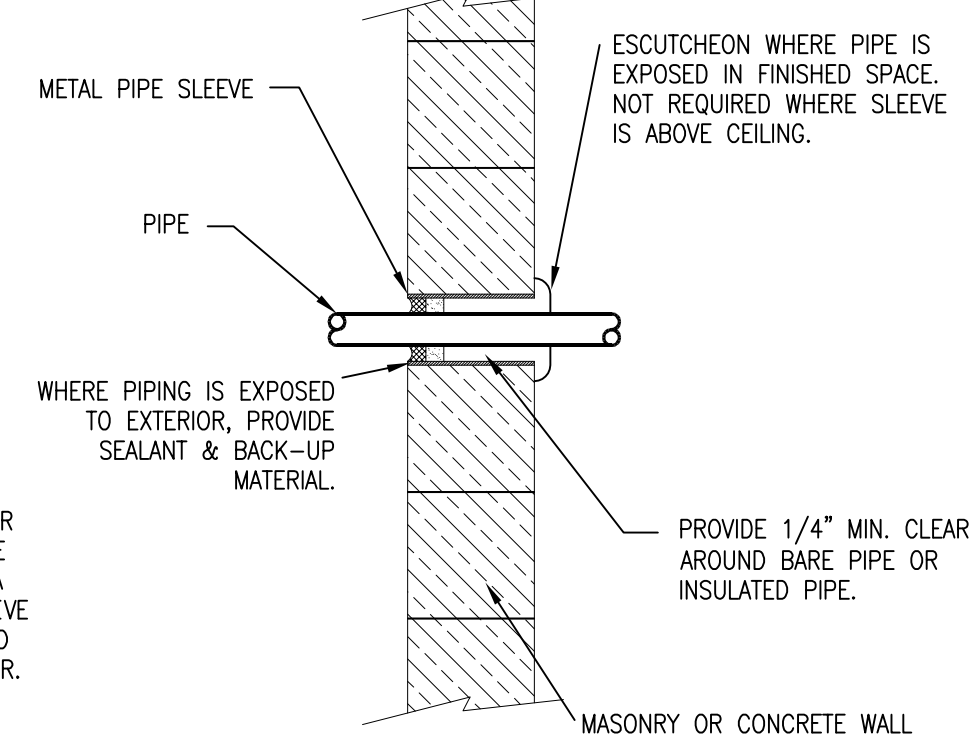
SHEET TITLE

MECHANICAL  
DETAIL SHEET

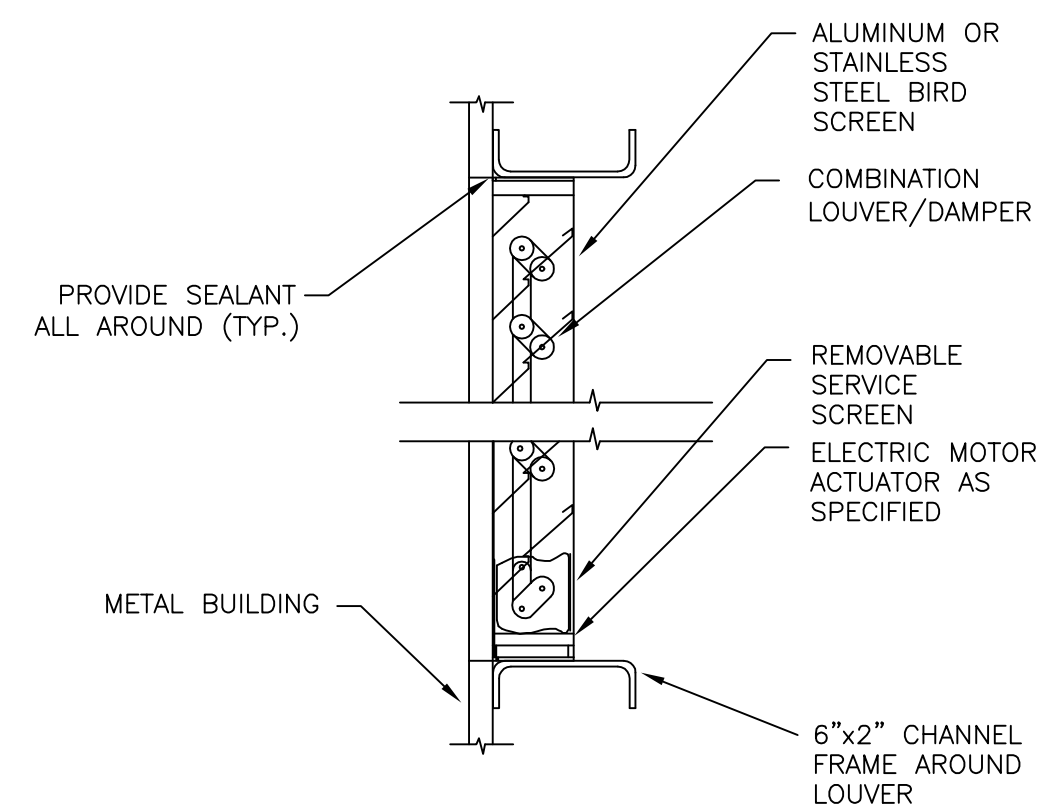
M601



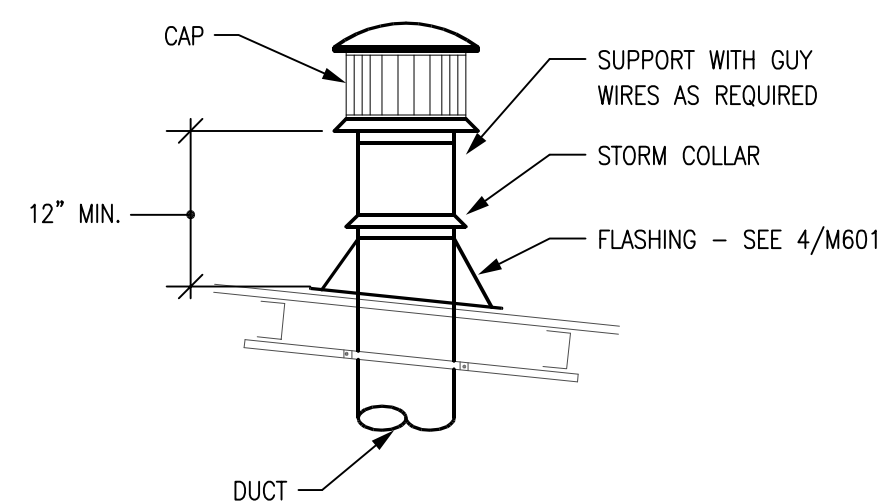
1 INLET LOUVER DETAIL  
M602 NO SCALE



2 PIPE THRU WALL ABOVE GRADE  
M602 NO SCALE



3 COMBINATION LOUVER/DAMPER DETAIL  
M602 NO SCALE



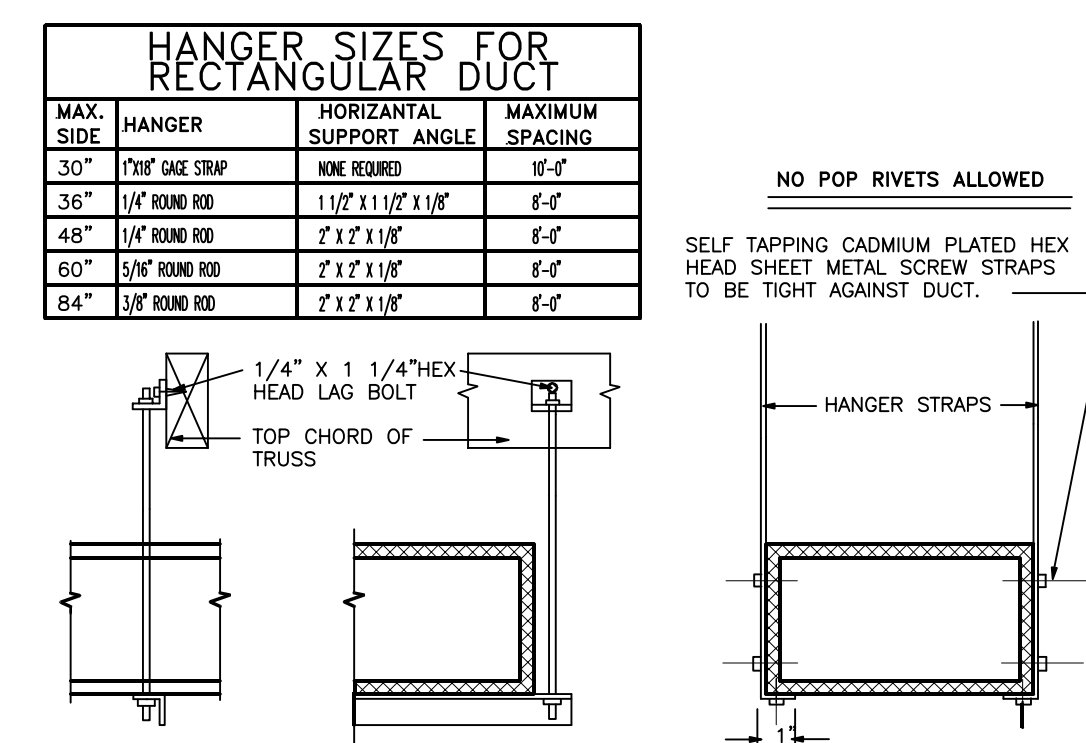
## 4 INTAKE VENT PIPE DETAIL

DIMENSION OF LONGEST SIDE, INCHES		SHEET METAL TYPE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)											
			AT JOINTS											
			MIN. LIP	W/DRIVE FLIP		W/ALTERNATE DRIVE FLIP	W/BAR FLIP	ANGLE FLIP	STAND SEAM	ANGLE REINFORCED S/LIP	POCKET LOCK	POCKET LOCK		
				PLAN S/LIP	HEM'D S/LIP								RECOM-MENDED GAUGE	RECOM-MENDED GAUGE
UP THRU 12	26	NONE REQ.	1	26	26	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
13 - 18	24	NONE REQ.	1	24	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
19 - 30	24	10X13/8 @ 60°	1	—	24	24	24	24	24	NOT REQ.	NOT REQ.	24	NOT REQ.	
31 - 42	22	10X13/8 @ 60°	1	—	—	22	22	22	22	NOT REQ.	NOT REQ.	22	NOT REQ.	
43 - 54	22	1.5X1.5X1/8/80	1 1/2	—	—	22	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.	22	NOT REQ.	
55 - 60	20	1.5X1.5X1/8/80	1 1/2	—	—	22	22	22	1.5X1.5X1/8	NOT REQ.	NOT REQ.	22	NOT REQ.	
61 - 84	20	1.5X1.5X1/8/80	1 1/2	—	—	22	22	1.5X1.5X1/8	1.5X1.5X1/8	22	1.5X1.5X1/8	22	1.5X1.5X1/8	

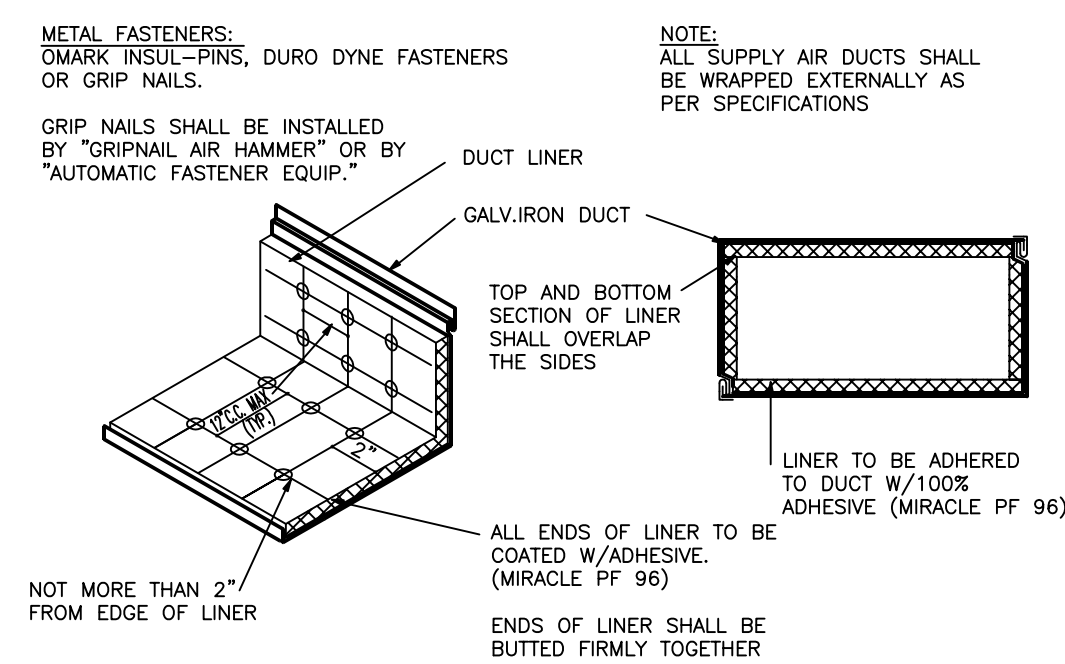
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M602

## DUCT CONSTRUCTION DETAIL

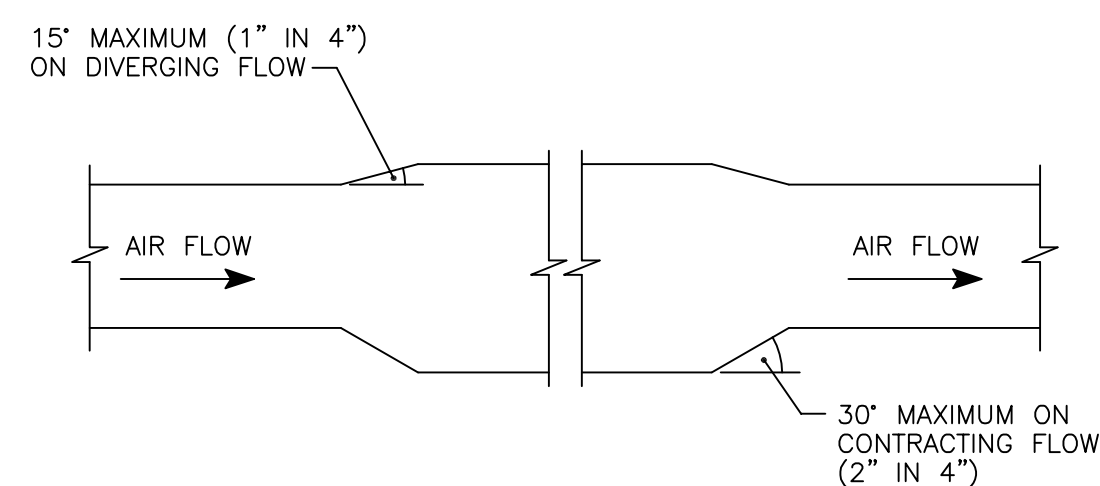
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7 DUCT LINER DETAIL  
M602 NO SCALE



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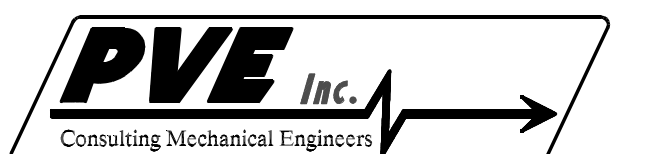
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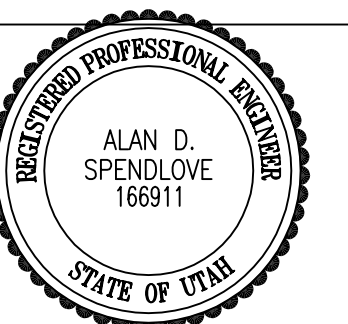
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## REGISTRATION



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ISSUE

	09/02/05	BID DOCUMENTS
	08/12/05	FINAL REVIEW SET
	07/18/05	PRELIMINARY REVIEW SET
MARK	DATE	DESCRIPTION

PROJECT NO: 050008.01

DRAWN BY: M.M.

CHECKED BY: A.D.S.

SCALE: \_\_\_\_\_

DATE: SEPTEMBER 2, 2005

## KEY PLAN

SHEET TITLE

# MECHANICAL DETAIL SHEET

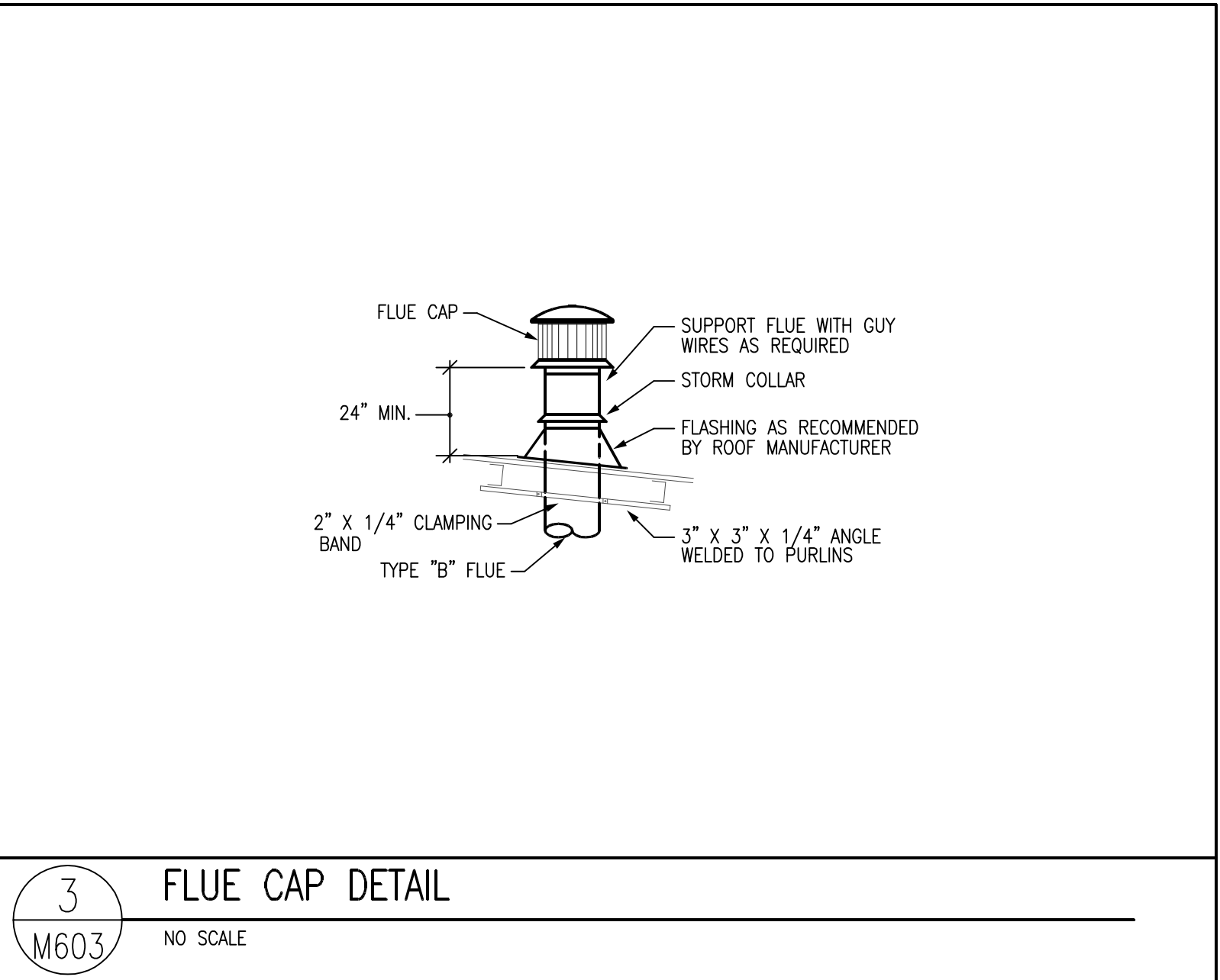
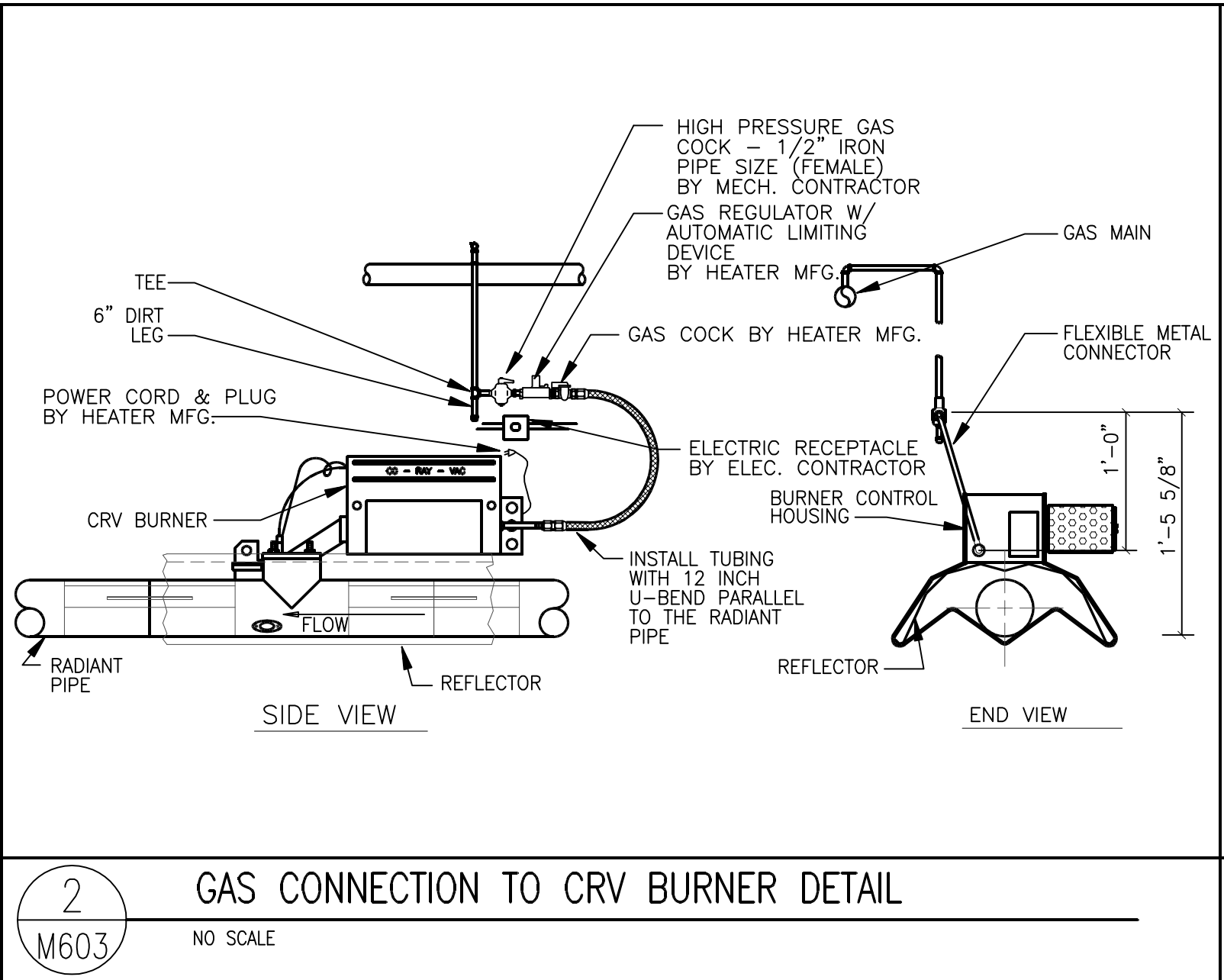
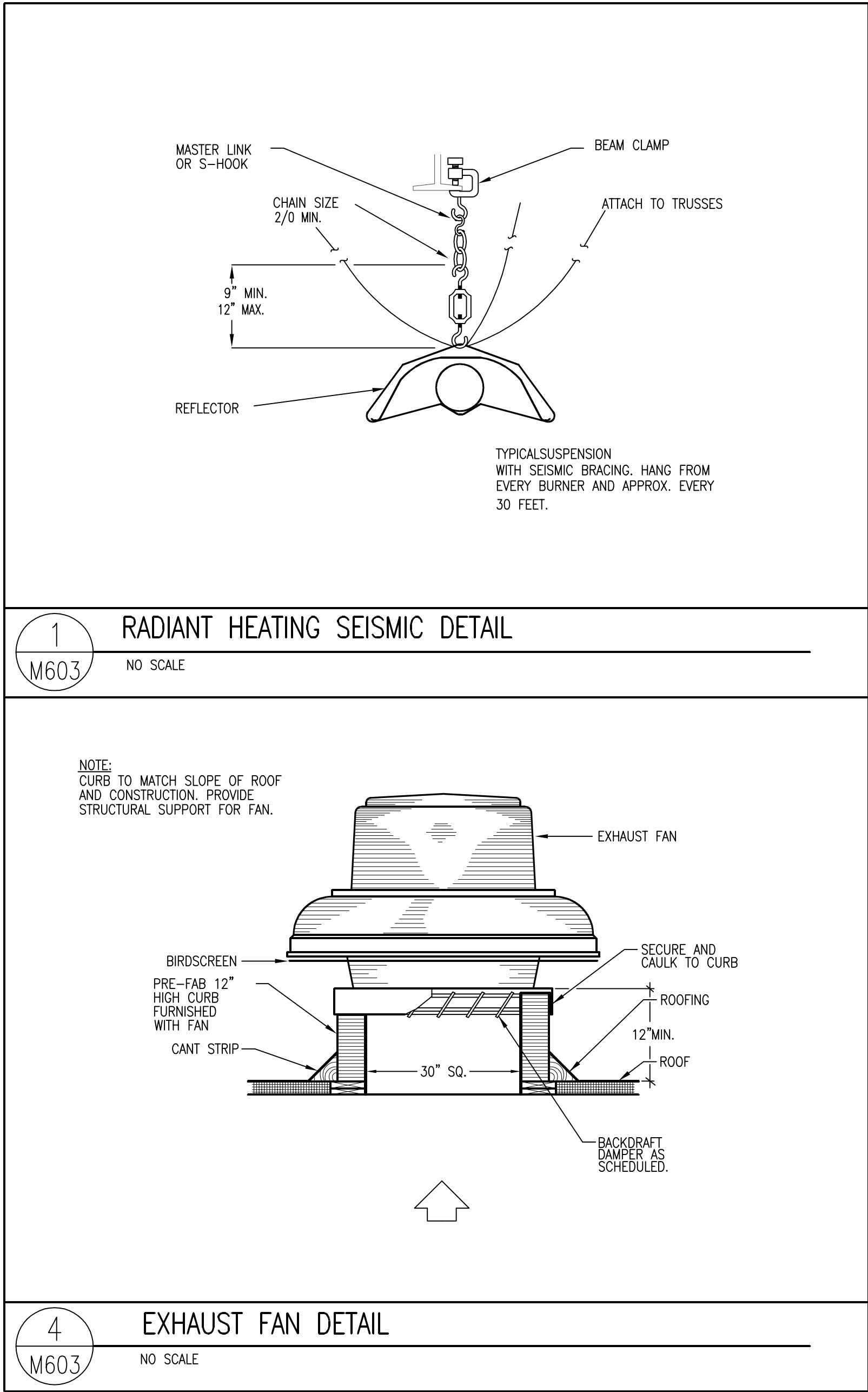
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PVE Project No: 04080.02



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DETAIL SHEET

M603

PIPING LEGEND (NOT ALL USED)			
GATE VALVE		CHILLED WATER SUPPLY	— CHS —
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	— CHR —
BALL VALVE		CONDENSER WATER SUPPLY	— CWS —
BUTTERFLY VALVE		CONDENSER WATER RETURN	— CWR —
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	— HWS —
HEAT TRACING		HEATING WATER RETURN	— HWR —
DEIONIZED WATER	— DI —	WATER TREATMENT	— WT —
CHECK VALVE		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	— HG —
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN (DN)	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	— RL —	PIPE CAP	
REFRIGERANT SUCTION	— RS —	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	— —
CIRCUIT SETTER		DOMESTIC HOT WATER	— — —
FLOW METER		HOT WATER CIRC.	— — — —
PET COCK OR GAUGE COCK		TEMPERED WATER	— T —
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	-----
THERMOMETER		SANITARY SEWER ABOVE GRADE	=====
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	-----
IN-LINE PUMP		DRAIN	— D —
FLOW SWITCH		ROOF DRAIN PIPING	— RD —
AQUASTAT		OVERFLOW DRAIN PIPING	— OD —
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	— SD —
VACUUM	— V —	STORM DRAIN PIPING BELOW GRADE	— SD —
FLOOR DRAIN		FIRE SERVICE	— F —
FLOOR SINK		NATURAL GAS	— G —
HOT GAS BYPASS	— HGBP —	COMPRESSED AIR	— CA —
WALL CLEANOUT OR CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	— S —
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	— C —

GENERAL NOTES:

- ① COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- ② DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- ③ THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- ④ THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
- ⑤ ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- ⑥ THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ⑦ FIRE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL FIRE PROTECTION SYSTEM PER REFLECTED CEILING PLAN AND THE CURRENT ADOPTED EDITION OF NFPA AND BUILDING CODE.
- ⑧ ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
- ⑨ PROVIDE INSULATION FOR THE FOLLOWING:  
a. DOMESTIC HOT WATER PIPING:  
1" THICK FOR ALL PIPE SIZES.  
b. DOMESTIC COLD WATER PIPING:  
3/4" THICK FOR PIPE SIZES 1/2" TO 6".  
(PROVIDE CONTINUOUS VAPOR BARRIER.)
- ⑩ INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
- ⑪ EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- ⑫ HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- ⑬ DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

PLUMBING FIXTURE CONNECTION SCHEDULE							
PLAN CODE	DESCRIPTION	CONNECTION SIZE					COMMENTS
		C.W.	H.W.	WASTE	VENT	TRAP	
WC-1	WATER CLOSET	1/2"	—	4"	2"	INT.	FLOOR MOUNTED TANK TYPE, CRANE — HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEAT — PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE, SIZE 24"x21". FAUCET AND DRAIN — SYMMONS S-6080 WITH DRAIN GRID, BATTERY OPERATED WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS. DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.
S-1	UTILITY SINK	1/2"	1/2"	3"	1-1/2"	3"	ELKAY ESSW 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND LK173 CAST IRON P-TRAP.
U-1	URINAL	3/4"	—	2"	1-1/2"	INT.	WALL MOUNTED URINAL CRANE #7197, 1.0 GPF. VITEROUS CHINA, MOUNT 17" A.F.F. TO MEET ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.
HB-1	HOSE BIBB	3/4"	—	—	—	—	SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE. (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E27 VACUUM BREAKER
WH-1	WALL HYDRANT	3/4"	—	—	—	—	WADE W8600,175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT TO BE SIZED FOR WALL THICKNESS.
FD-1	FLOOR DRAIN	—	—	3"	1-1/2"	2"	FLOOR DRAIN J.R. SMITH #2005-A WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.
FD-2	FLOOR DRAIN	—	—	4"	2"	4"	SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.
ES-1	EMERGENCY EYEWASH & SHOWER	1-1/4"	—	—	—	—	BRADLEY S19-310SFPW, FLOOR MOUNTED SAFETY STATION COMBINATION EYEWASH AND EMERGENCY SHOWER. ALUMINUM FLOOR FLANGE AND GALVANIZED INTERMEDIATE PIPE AND FITTINGS. TWO SOFT STREAM OUTLET HEADS, STAINLESS STEEL BOWL AND STAY OPEN TYPE VALVE ON EYEWASH, ORANGE CYCLOAC PLASTIC SHOWER HEAD WITH STAY OPEN VALVE (OPERATED BY PULL ROD AND HANDLE), 1-1/4" IPS FEMALE INLET AND OUTLET.
S-2	DOUBLE COMPARTMENT SINK	1/2"	1/2"	2"	1-1/2"	2"	JUST #DL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"x33" OD WITH TWO COMPARTMENTS THAT ARE 16"x14"x8" DEEP, MATERIAL — 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND CONDENSATION REDUCTION. FAUCET AND DRAIN — GOOSENECK WITH SPRAY. JUST JWF-201 WITH TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLATED SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.
FS-1	FLOOR SINK	—	—	2"	1-1/2"	2"	FLOOR SINK J.R. SMITH #3020. COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER
TP-1	TRAP PRIMER	1/2"	—	—	—	—	TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB M-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.
DF-1	DRINKING FOUNTAIN	1/2"	—	2"	1-1/2"	2"	ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECKSSEL, 115 VOLTS, 400 WATTS, 4.8 AMPS, ELKAY #ESRWC-13.
TD-1	TRENCH DRAIN	—	—	3"	2"	3"	TRENCH DRAIN J.R. SMITH #9031, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C STAINLESS STEEL SLOTTED GRATE, FULLY SLOPED CHANNELS.
TMV-1	TEMPERATURE MIXING VALVE	1/2"	1/2"	—	—	—	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. BRADLEY #S19-2100 COMPLETE WITH CHROME PLATED FINISH, STAINLESS STEEL SURFACE MOUNTED BOX, INTEGRAL STRAINER CHECK STOPS ON INLET BUILT IN COLD WATER BYPASS, HOT WATER SHUT OFF WHEN COLD SUPPLY IS LOST, OUTLET TEMPERATURE GAUGE. 25 GPM @ 15 PSI PRESSURE DROP. SET TEMPERATURE TO 85°.

GAS FIRED WATER HEATER SCHEDULE										
SYMBOL	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
WH-1	BRADFORD WHITE #M-1-40T8EN (LP)	HOT WATER	40	PROPANE	40,000	41	20"	40/140°	3"	*

\* PROVIDE WITH EXPANSION TANK. A.O. SMITH-AMTROL ST-5-2 GAL, 8"x12"H

AIR COMPRESSOR						
PLAN CODE	DUTY	ACFM @ 175 PSI	RECEIVER CAP. (GAL)	ELECTRICAL		MANUFACTURER & MODEL NO
				VOLT/PH	HP	
AC-1	SHOP AIR	24	80V	208/3	7.5	SPEEDAIRE WW GRANGER #5F565

\* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

CIRCULATION PUMP SCHEDULE							
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR H.P.	VOLTAGE & PHASE	COMMENTS
CP-1	DOMESTIC HOT WATER RECIRCULATION	1	4	3250	1/40	115	TACO #003PNP SEE HOT WATER HEATER DETAIL FOR INSTALLATION REQ.

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MEADOW, UTAH 84644

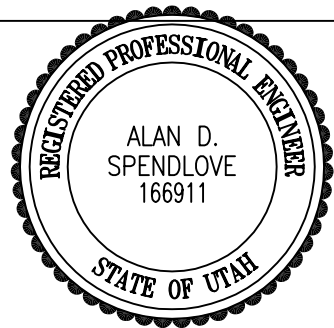
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DRAWN BY:	M.M.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	SEPTEMBER 2, 2005
KEY PLAN	

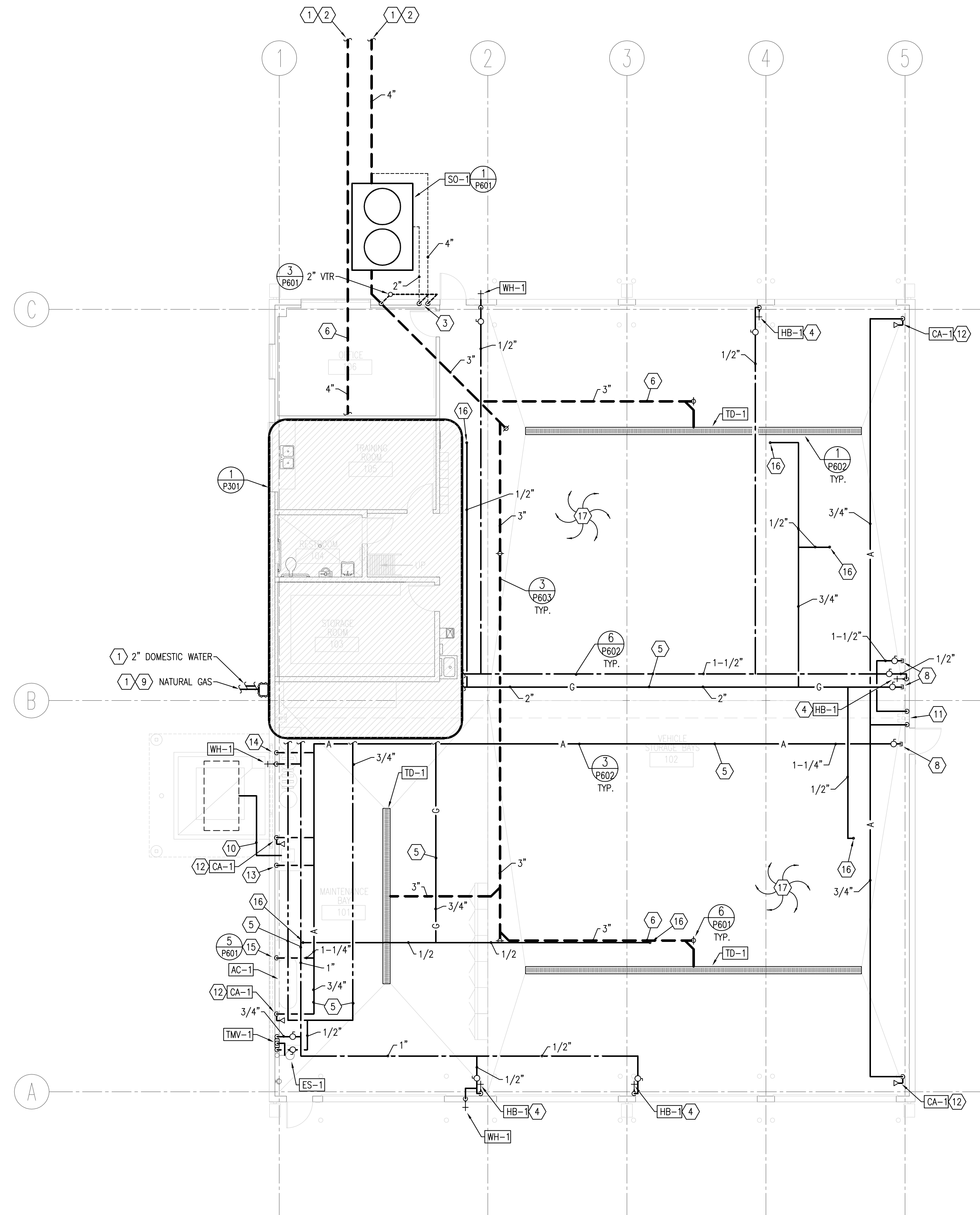
SHEET TITLE

PLUMBING SCHEDULE  
SHEET

P001

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1 PLUMBING FLOOR PLAN  
P201 SCALE: 1/8" = 1' - 0" 6' 0 4' 8' 12' 16'

- KEYED NOTES:**
- SEE SITE DRAWINGS FOR CONTINUATION.
  - SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.
  - VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR AND THEN CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT PIPE.
  - PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
  - ROUTE PIPING ABOVE STRUCTURE.
  - ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
  - NOT USED.
  - CAP LINE FOR FUTURE EXPANSION.
  - 1012 CFH OF 2 PSI NATURAL GAS WITH 0.60 SPECIFIC GRAVITY AND HEAT CONTENT OF 840 BTU/CFH. PROVIDE APPLIANCE REGULATOR AT EACH APPLIANCE TO REDUCE PRESSURE FROM 2 PSI TO 4 OZ.
  - CONNECT OIL DRAIN LINE TO DRAIN PUMP. RUN DRAIN LINE OUT TO CATCH TANK. PROVIDE SHUT-OFF VALVE AND UNION. CATCH TANK FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. DRAIN PUMP BY CONTRACTOR. VERIFY LOCATION.
  - CONNECT 1" COMPRESSED AIR LINE AND 3/4" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
  - 3/4" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
  - DROP 3/4" COMPRESSED AIR DOWN TO OIL DRAIN PUMP. PROVIDE SHUT-OFF VALVE.
  - DROP 1" COMPRESSED AIR LINE TO LUBE BARRELS. PROVIDE SHUT-OFF VALVE. LUBE BARRELS BY OWNER, INSTALLED BY CONTRACTOR.
  - AIR COMPRESSOR BY CONTRACTOR. CONNECT 1-1/2" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
  - NATURAL GAS LINE DOWN TO BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR REFERENCE DETAIL 2/M603.
  - PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.

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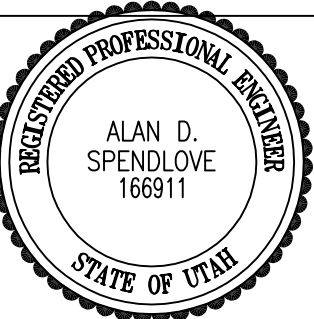
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CHECKED BY: A.D.S.

SCALE:

DATE: SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

PLUMBING  
FLOOR PLAN

P201

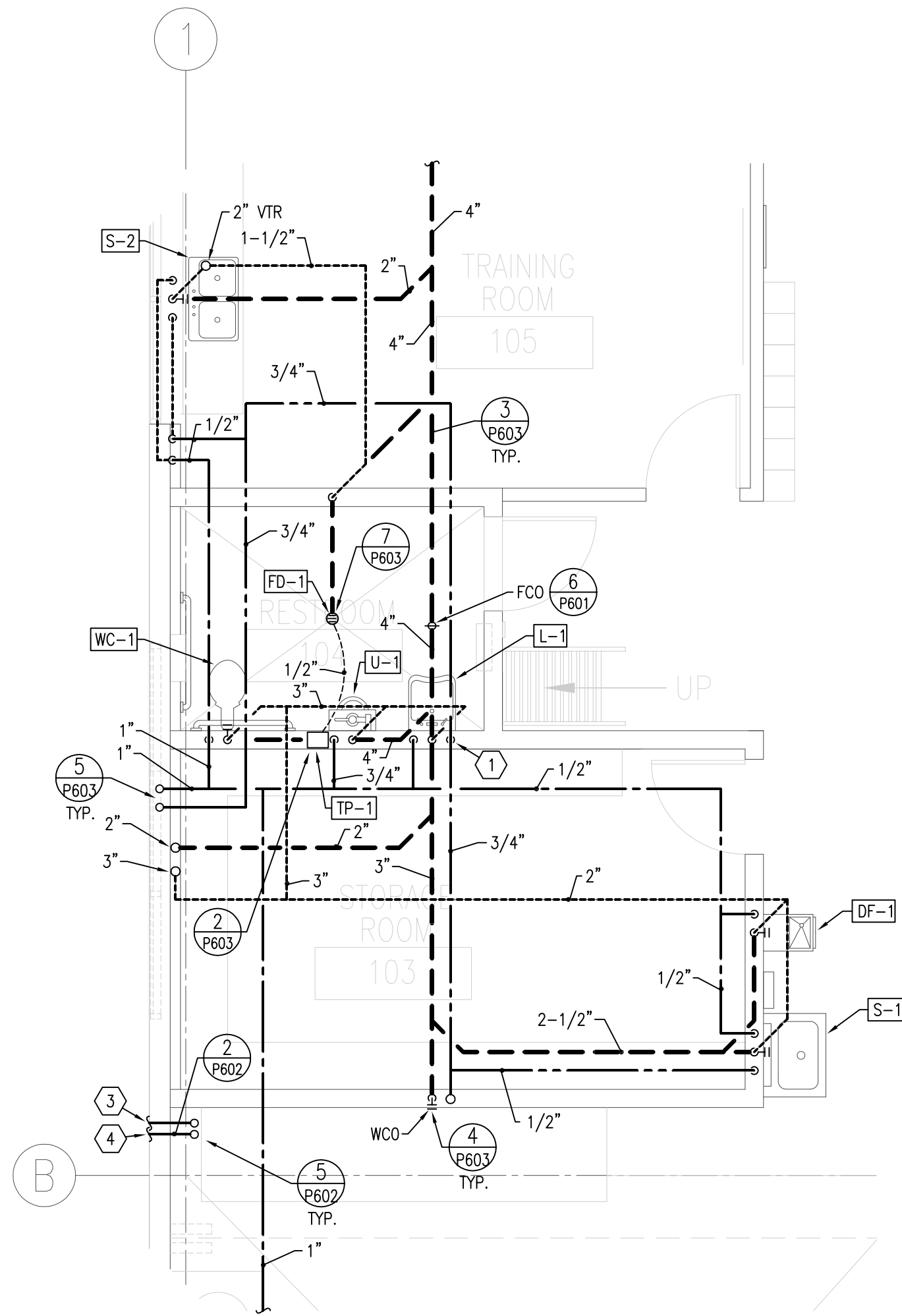
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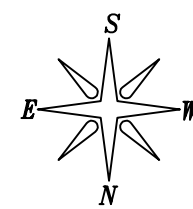


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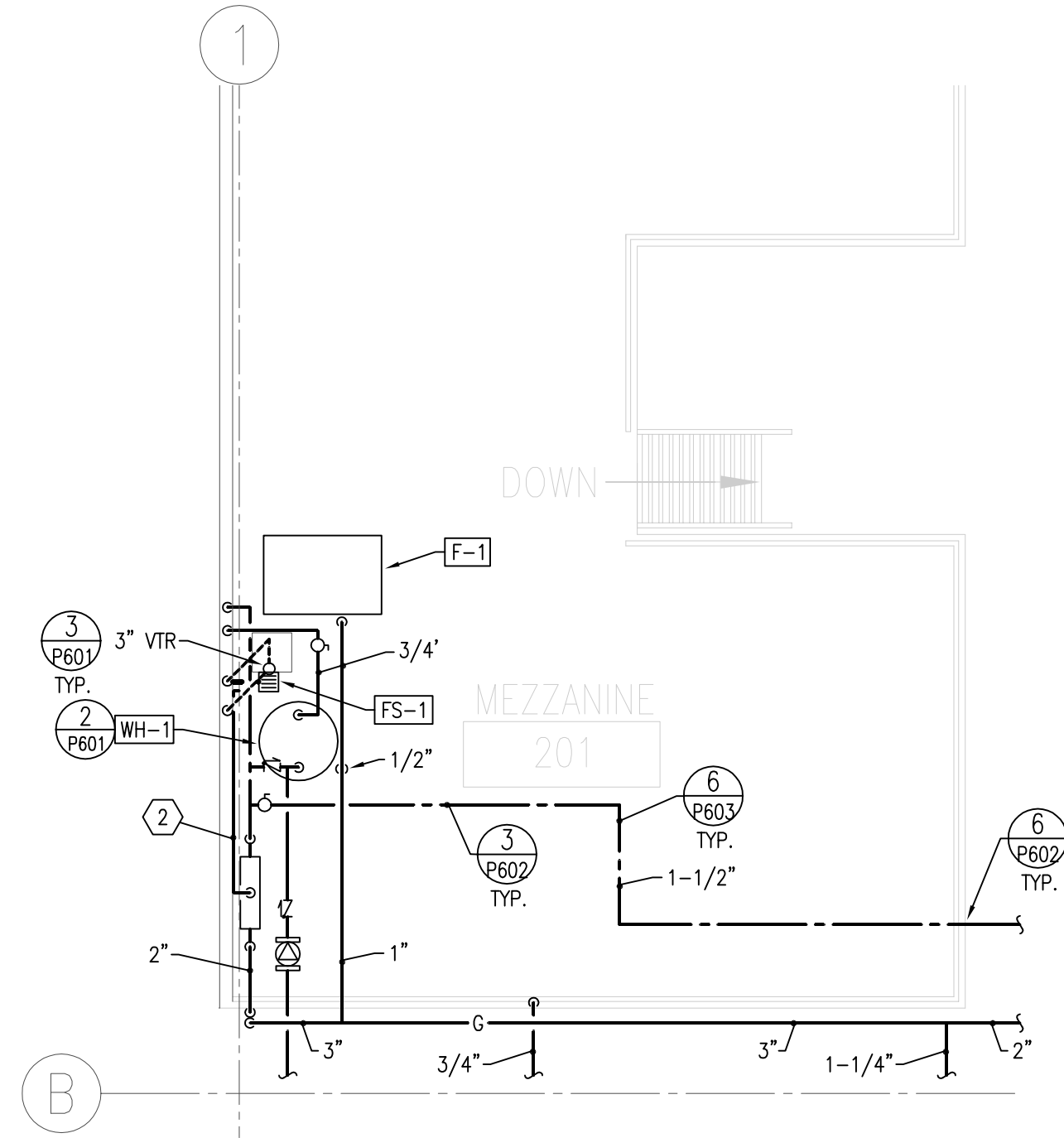
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1 PLUMBING ENLARGEMENT  
SCALE: 1/4" = 1' - 0" 6' 0 4' 8' 12' 16'



- KEYED NOTES:
- 1 1/2" HOT WATER DOWN TO L-1
  - 2 3/4" DRAIN LINE. AIR GAP TO FS-1
  - 3 2" WATER LINE.
  - 4 3" GAS LINE.
  - 5 NOT USED
  - 6 NOT USED



2 MEZZANINE PLUMBING PLAN  
SCALE: 1/4" = 1' - 0" 6' 0 4' 8' 12' 16'

CLIENT

MEADOW  
MAINTENANCE FACILITY  
STATION #4534  
400 N. MAIN  
MEADOW, UTAH 84644

DESIGNER

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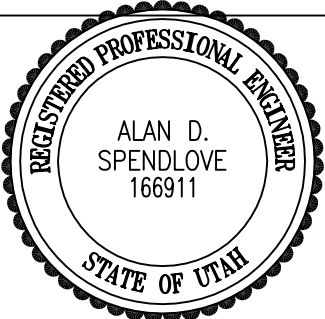
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	09/02/05	BID DOCUMENTS
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PROJECT NO:	050008.01
DRAWN BY:	M.M.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

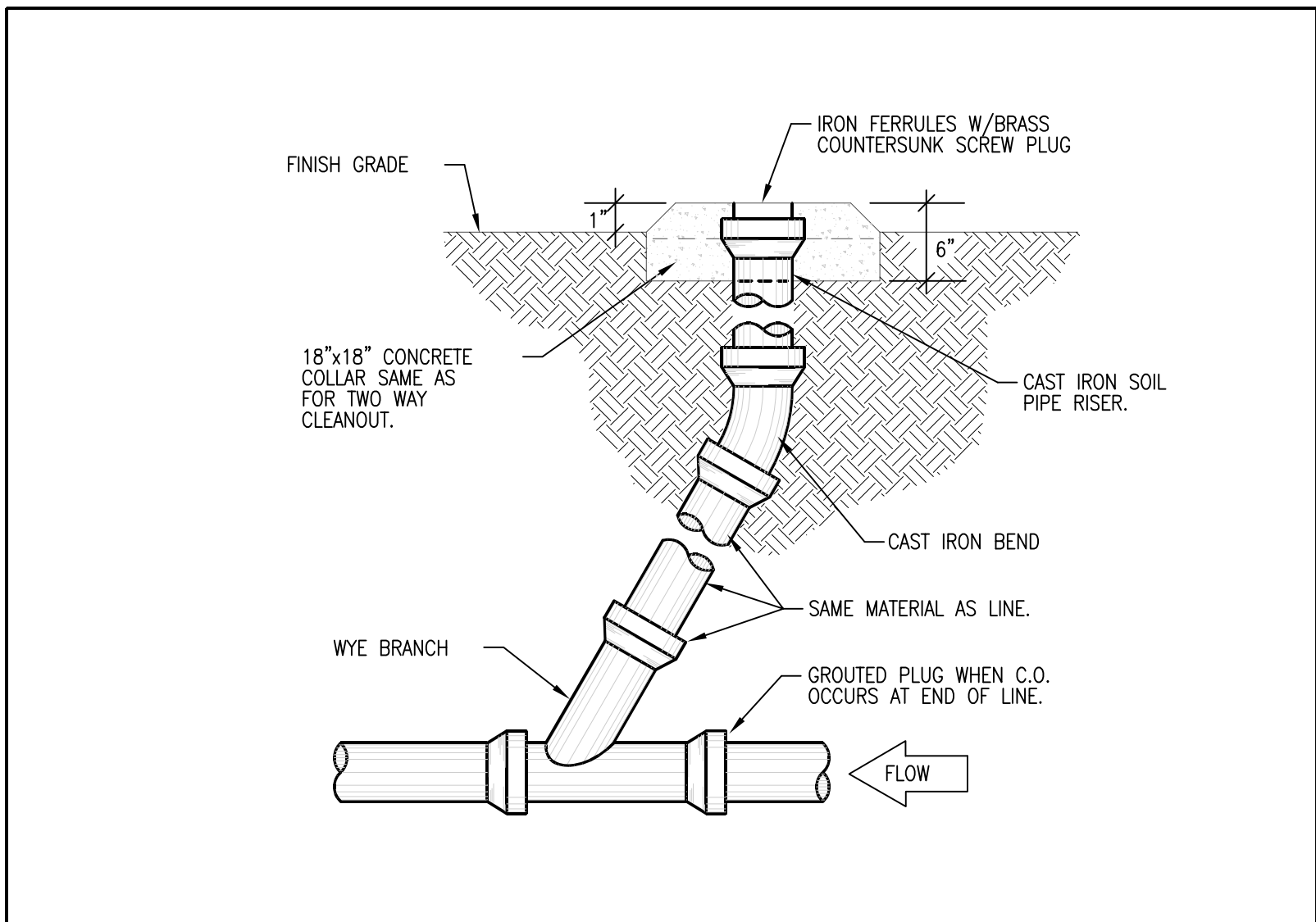
SHEET TITLE

PLUMBING  
ENLARGEMENTS

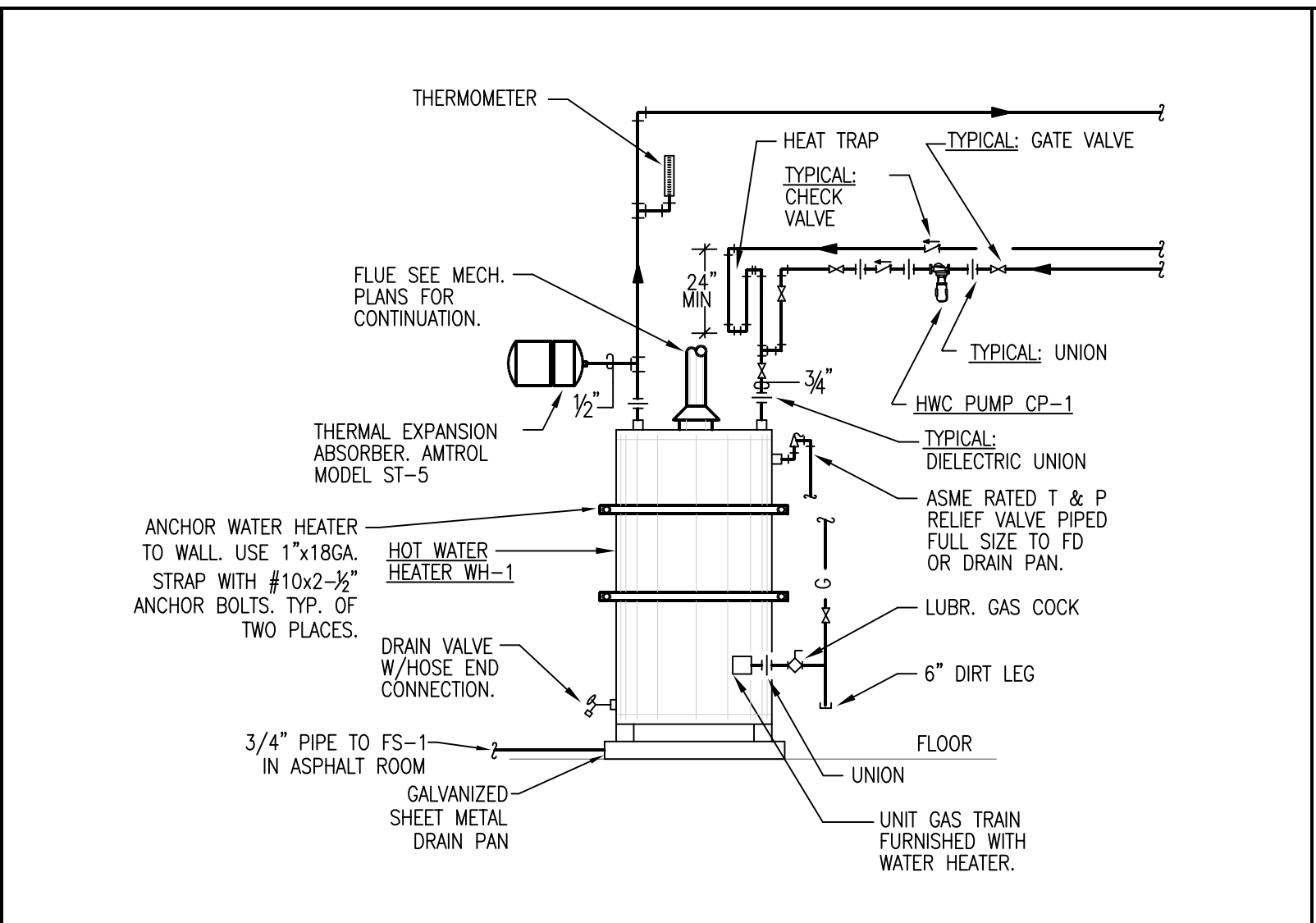
P301

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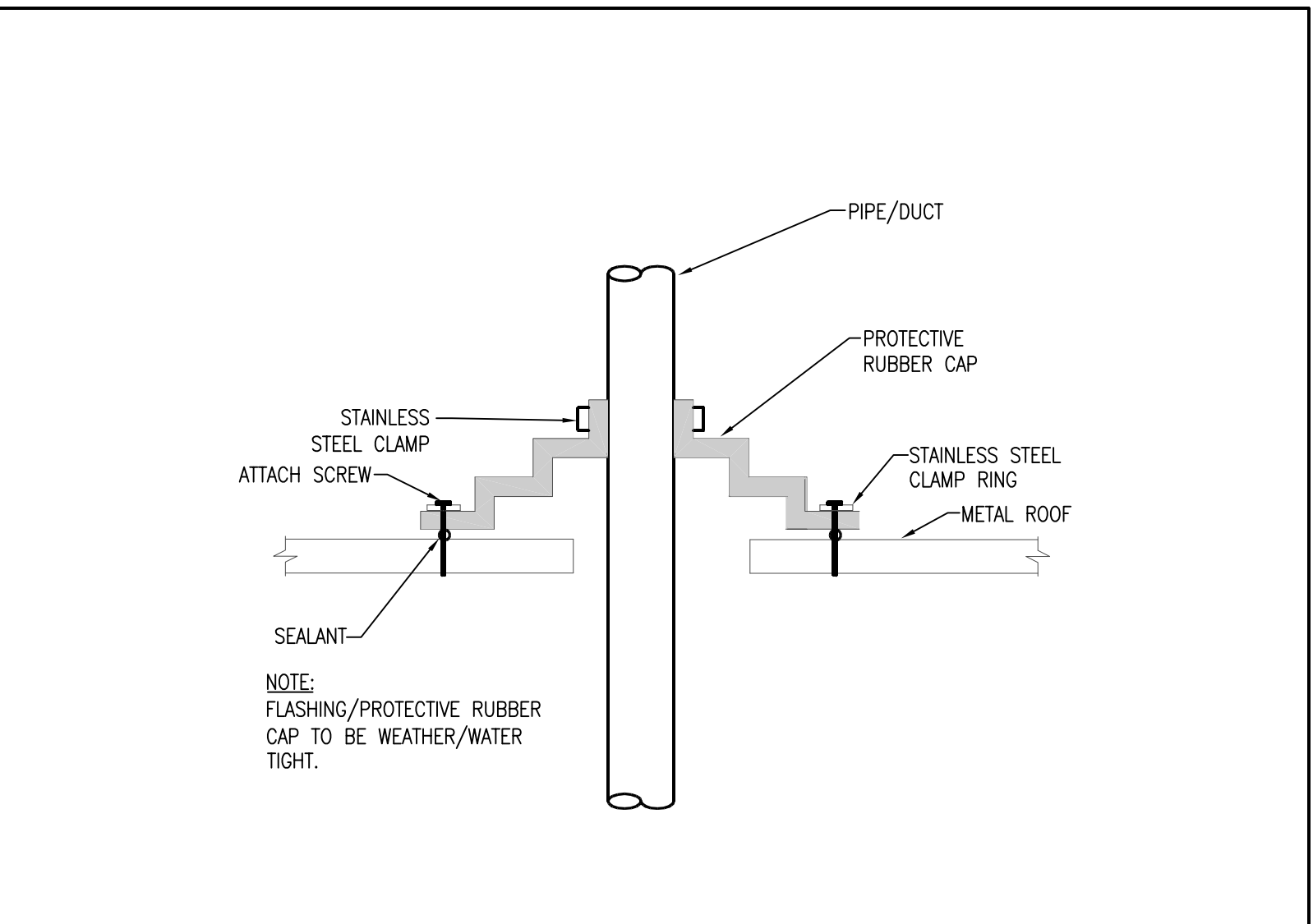
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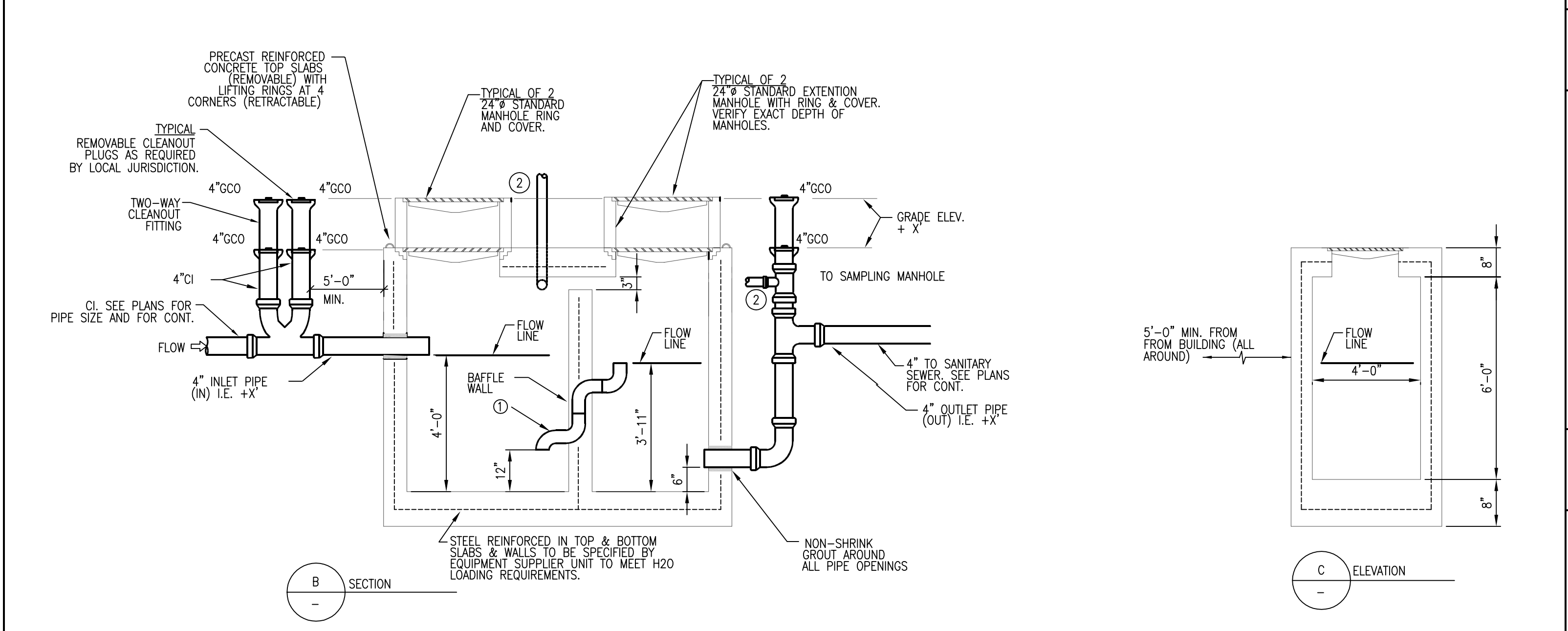
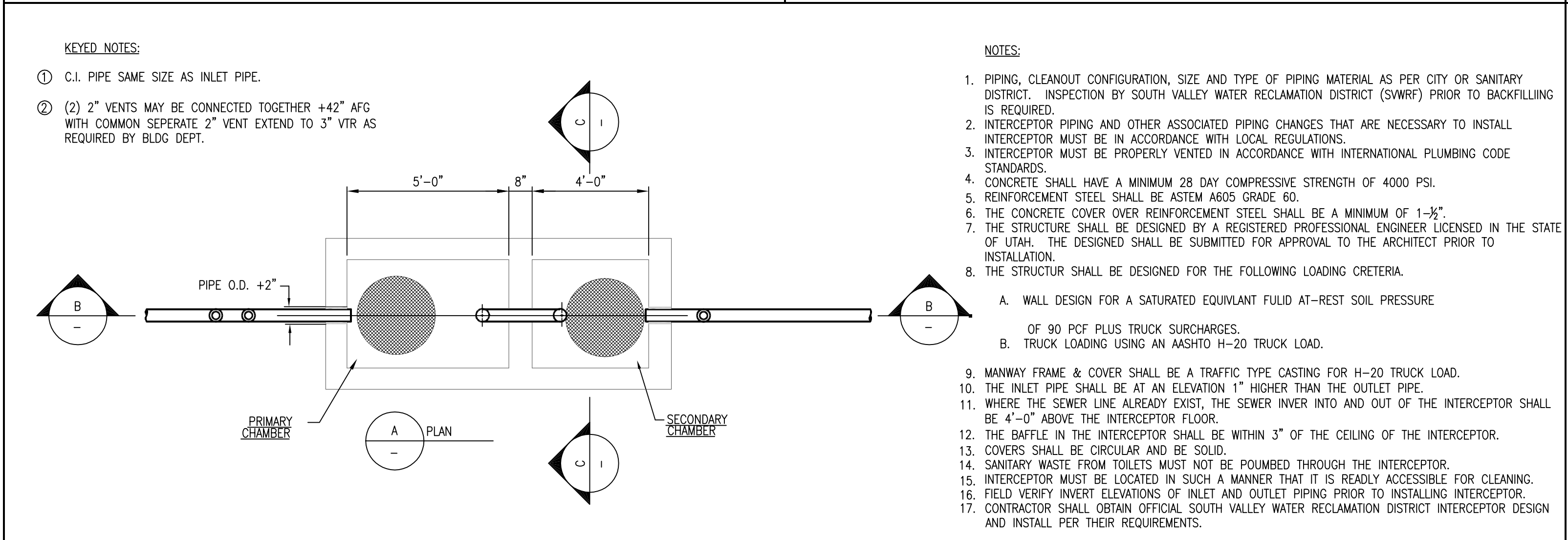
1 EXTERIOR CLEANOUT DETAIL  
P601 NO SCALE



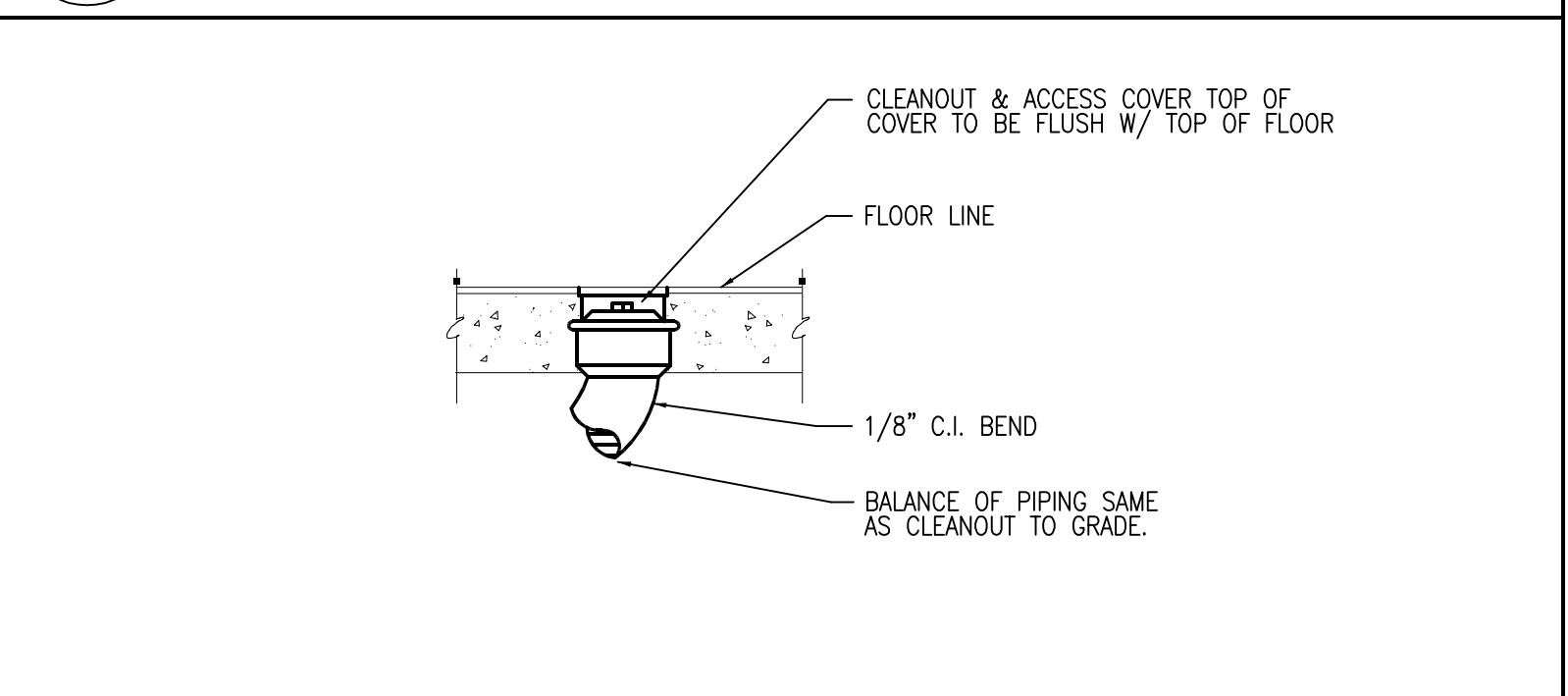
2 GAS FIRED WATER HEATER  
P601 NO SCALE



3 METAL ROOF PENETRATION DETAIL  
P601 NO SCALE



5 COMPRESSED AIR OUTLET CONNECTION DETAIL  
P601 NO SCALE



6 FLOOR CLEANOUT  
P601 NO SCALE

4 1000 GALLON GREASE INTERCEPTOR DETAIL-2 COMPARTMENT  
P601 NO SCALE

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400 N. MAIN  
MEADOW, UTAH 84644

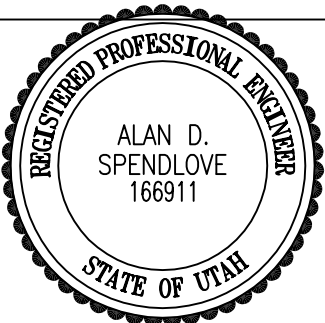
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PROJECT NO:	050008.01
DRAWN BY:	M.M.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

PLUMBING  
DETAIL SHEET

P601

PVE Project No: 04080.02

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MARK	DATE	DESCRIPTION

PROJECT NO:	050008.0
DRAWN BY:	M.M
CHECKED BY:	A.D.S
SCALE:	
DATE:	SEPTEMBER 2, 200

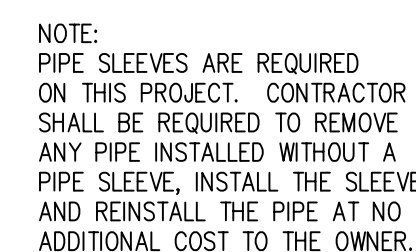
## KEY PLAN

SHEET TITLE

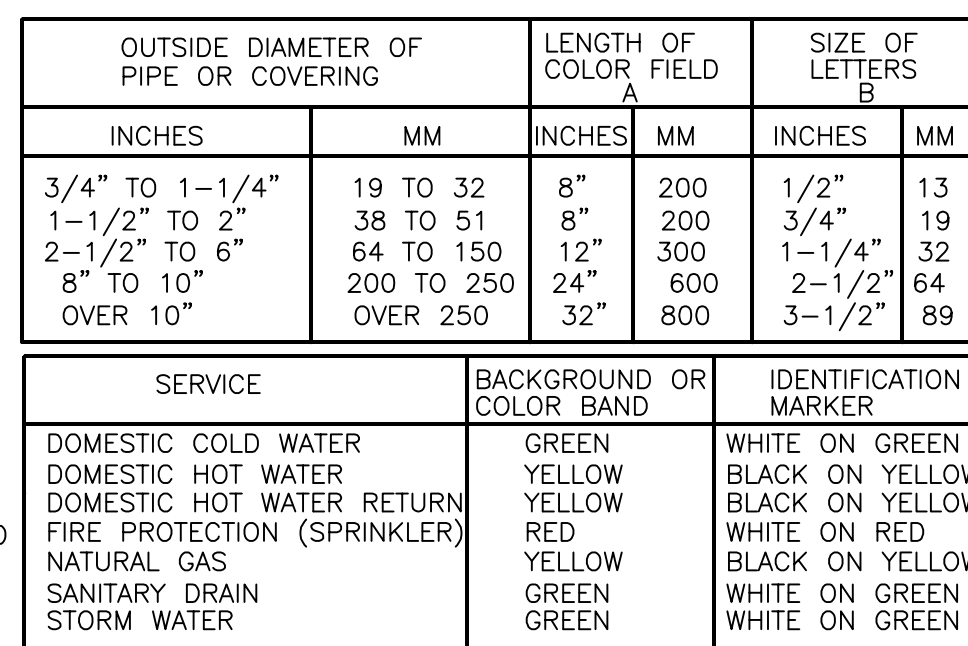
## PLUMBING DETAIL SHEET

P602

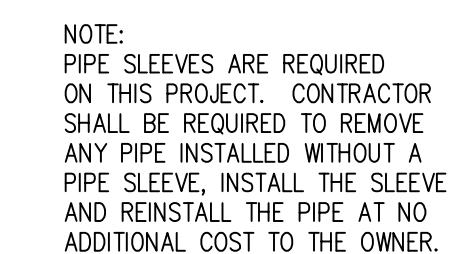
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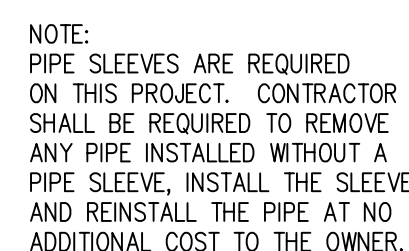
2 PIPE THRU WALL ABOVE GRADE  
P602 NO SCALE



4 NOT USED  
P602 NO SCALE



6 PIPING THRU GYPSUM WALL  
602 NO SCALE

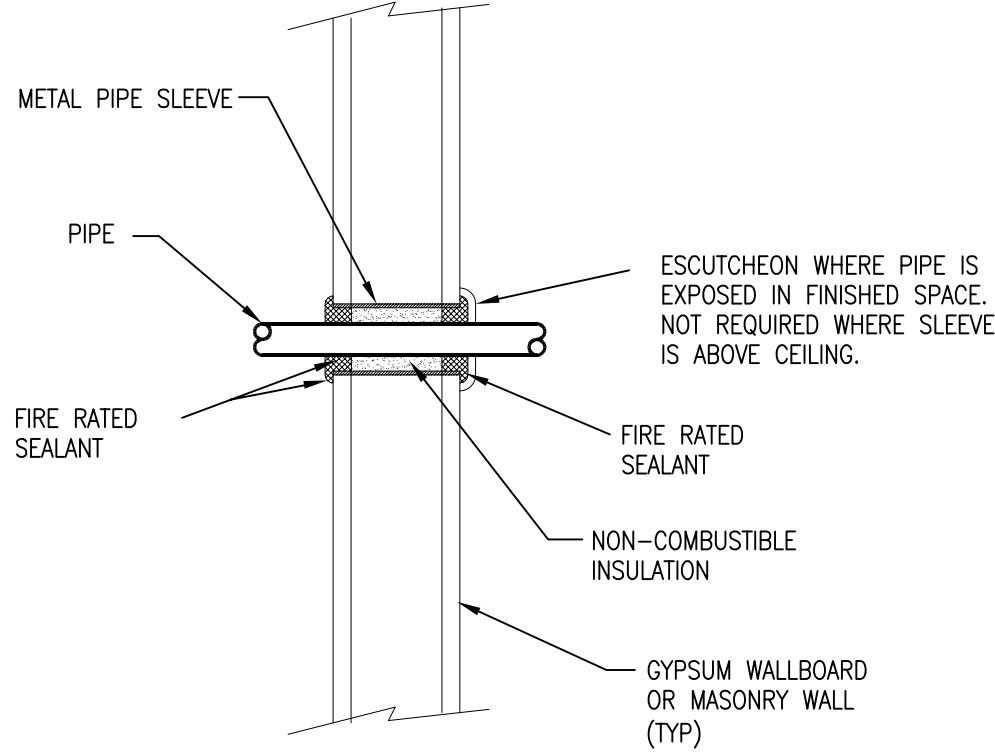


7 NOT USED  
P602 NO SCALE



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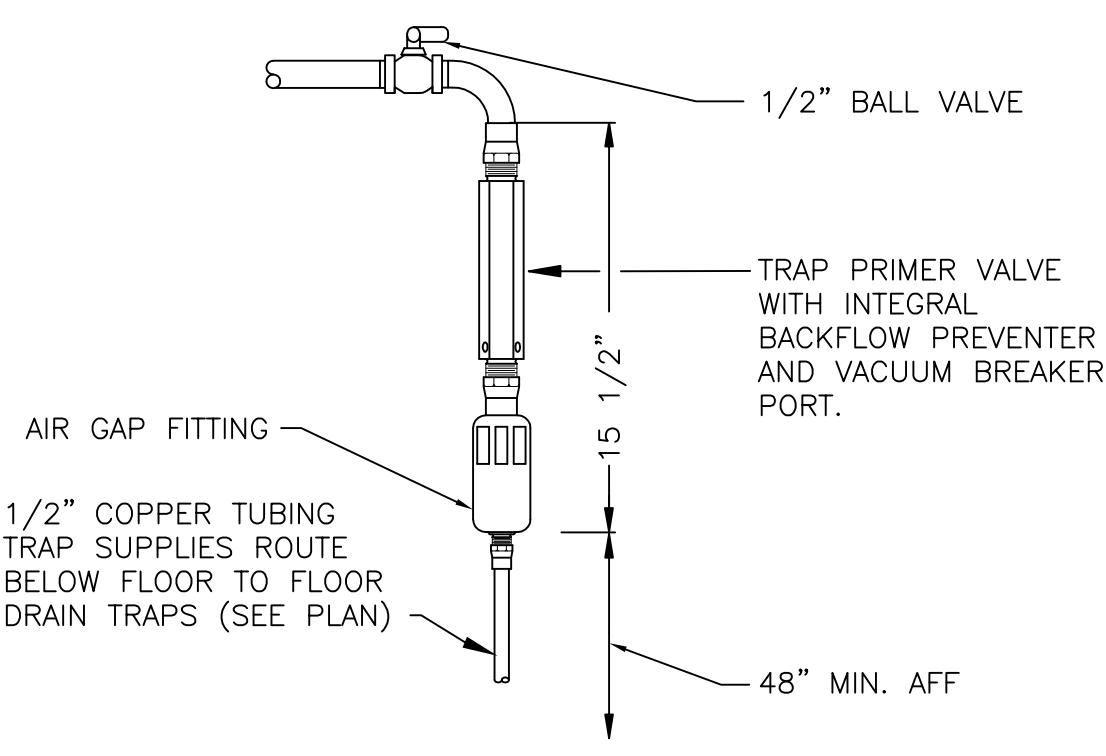
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1  
P603

NO SCALE

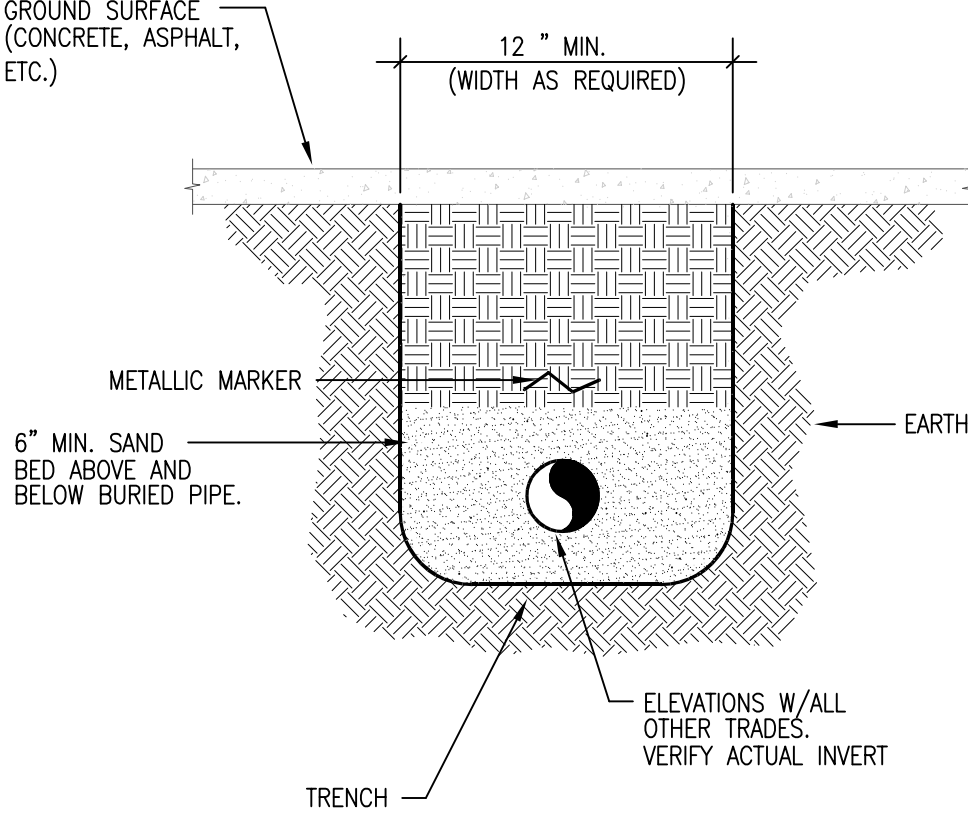
PIPING THRU FIRE-RATED WALL



2  
P603

NO SCALE

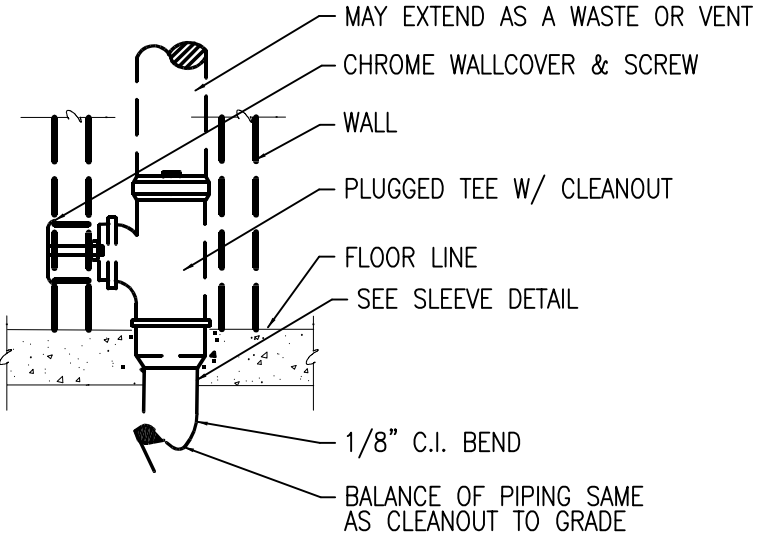
TRAP PRIMER DETAIL



3  
P603

NO SCALE

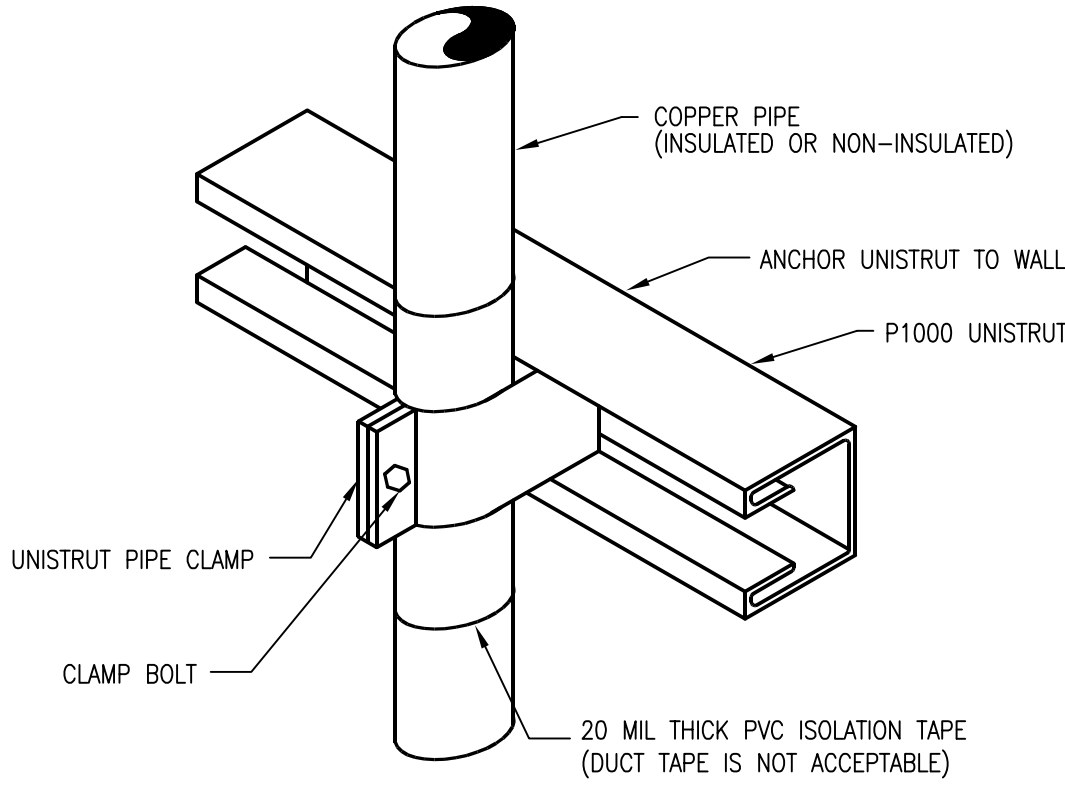
BURIED PIPE DETAIL



4  
P603

NO SCALE

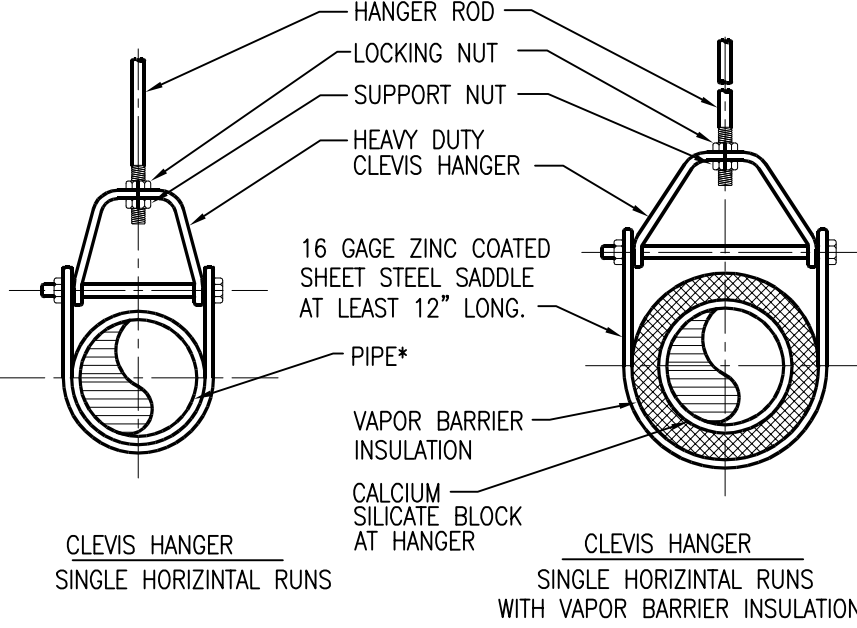
WALL CLEANOUT - ALL VERTICAL PIPE



5  
P603

NO SCALE

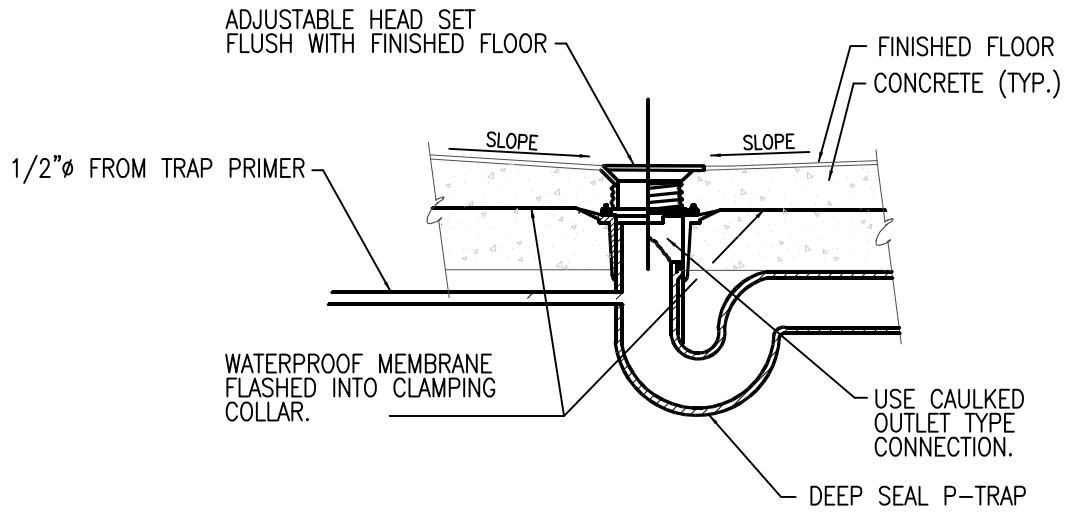
PIPE SUPPORT DETAIL



6  
P603

NO SCALE

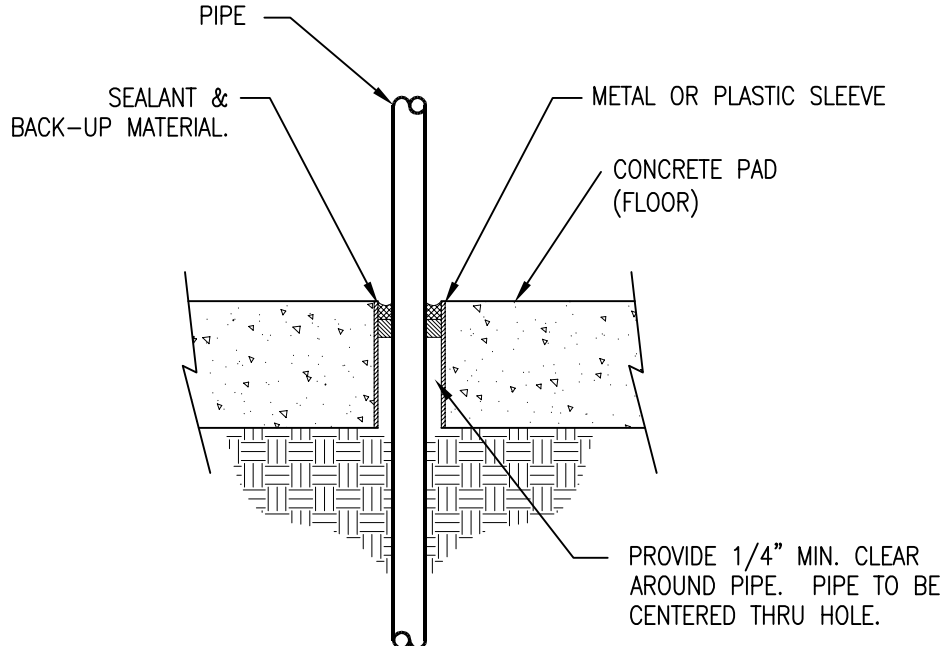
PIPE HANGERS DETAIL



7  
P603

NO SCALE

FLOOR DRAIN DETAIL



8  
P603

NO SCALE

PIPING THRU ON GRADE FLOOR

CLIENT

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PROJECT NO:	050008.01
DRAWN BY:	M.M.
CHECKED BY:	A.D.S.
SCALE:	
DATE:	SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

PLUMBING  
DETAIL SHEET

P603

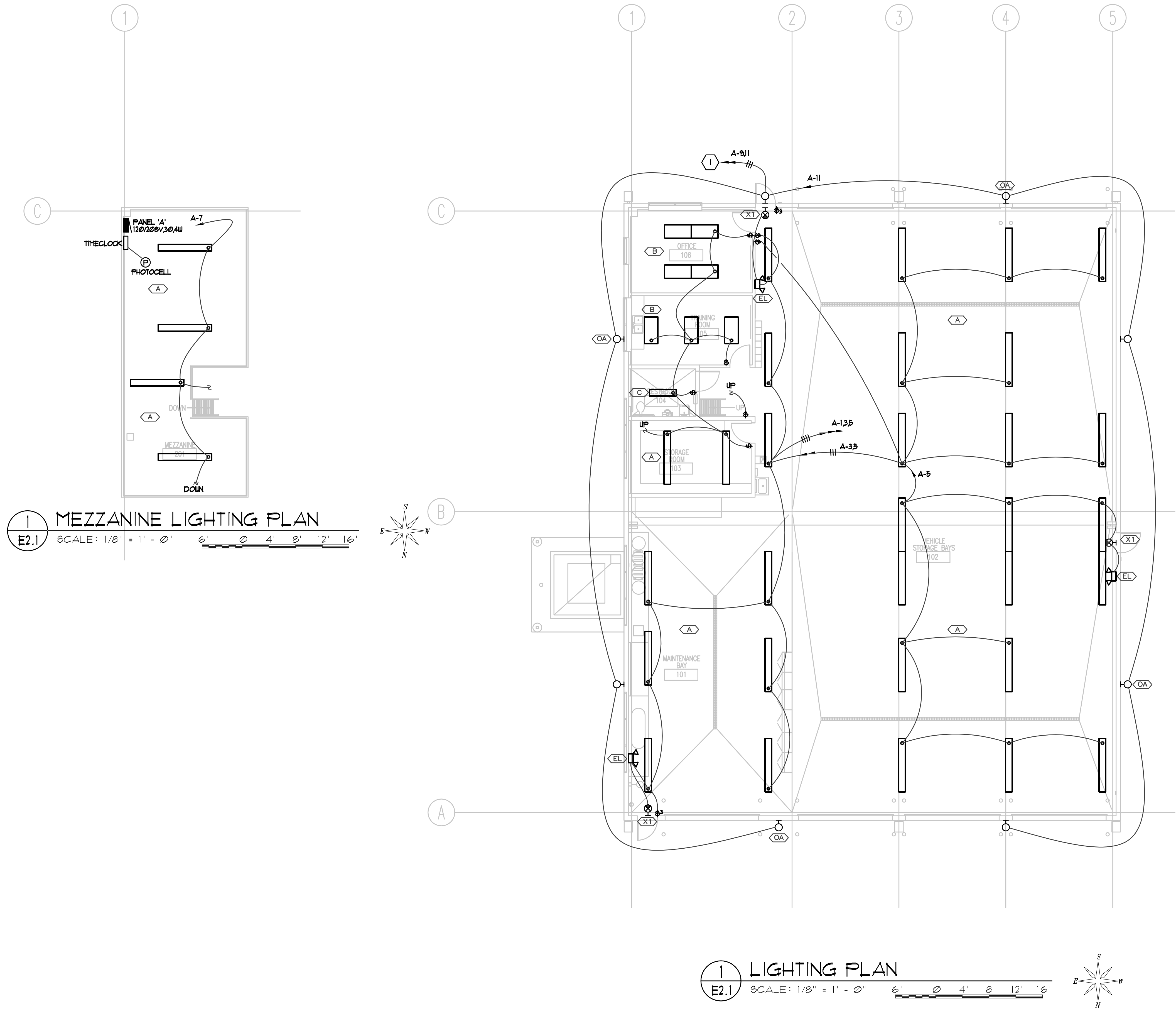
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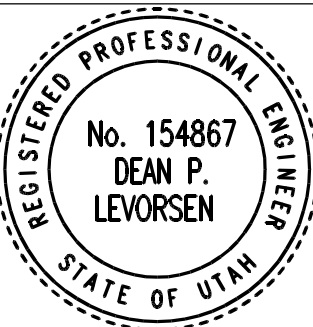
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DRAWN BY: K.D.M.  
CHECKED BY: R.K.R.

DATE: SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

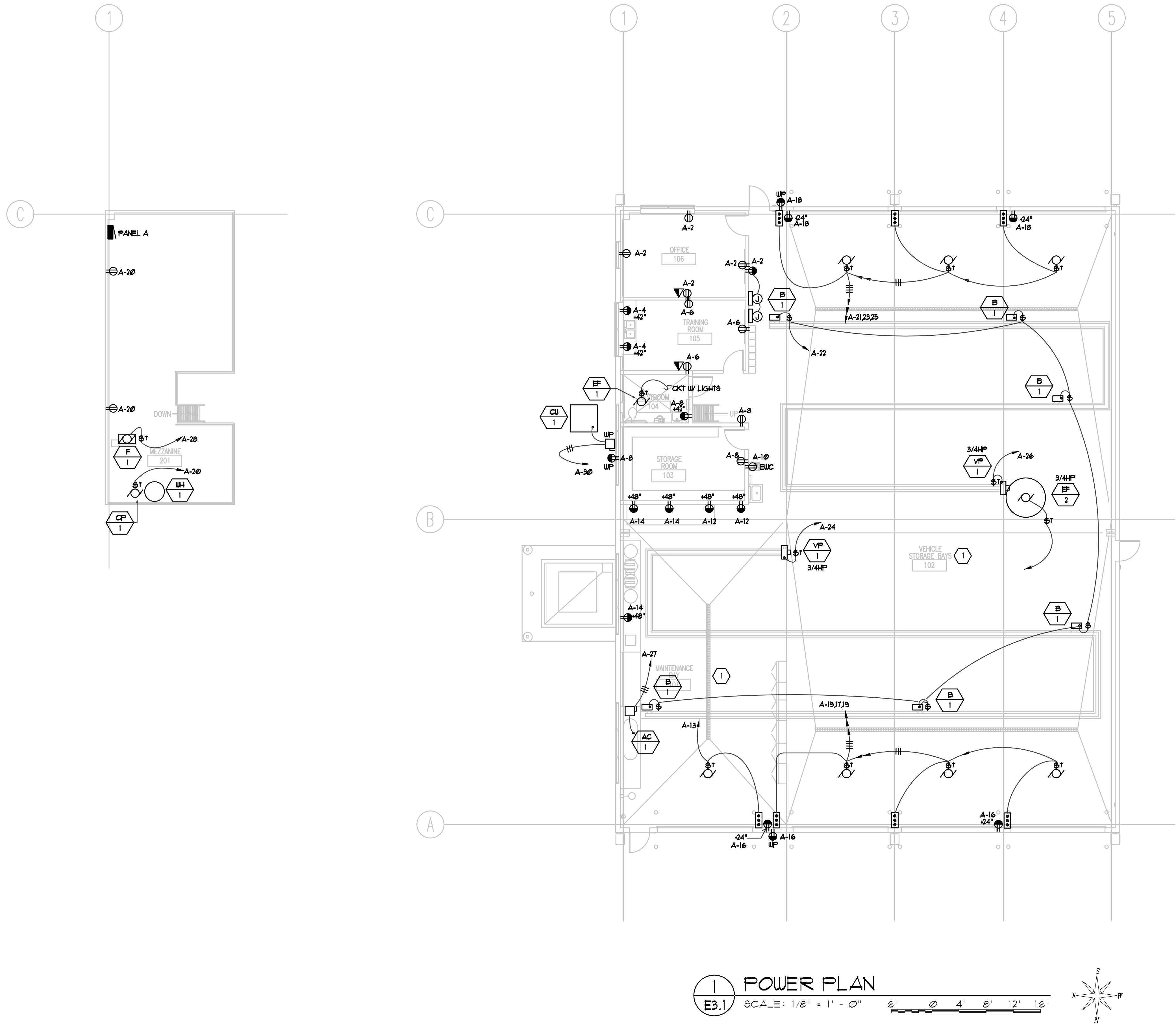
LIGHTING  
PLAN

E2.1



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### PLAN NOTES

1 ALL RECEPTACLES IN VEHICLE STORAGE BAYS AND MAINTENANCE BAY SHALL BE MOUNTED A MINIMUM OF 64" A.F.F. AND BE A GFCI TYPE RECEPTACLE.

### NOTE:

ALL ELECTRICAL INSTALLATIONS & WIRING SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 911 NEC COMMERCIAL GARAGES, REPAIR & STORAGE.

CLIENT

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MAINTENANCE FACILITY  
STATION #4534  
400 N. MAIN  
MEADOW, UTAH 84644

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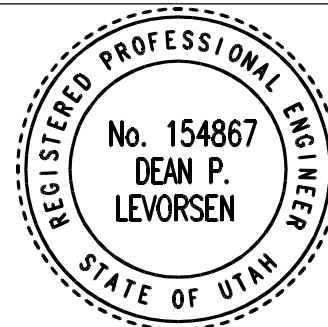
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DRAWN BY: K.D.M.  
CHECKED BY: R.K.R.

DATE: SEPTEMBER 2, 2005

KEY PLAN

SHEET TITLE

**POWER  
PLAN**

**E3.1**